

# 2015 - 2016

## Postgraduate Course Catalogue



University of  
St Andrews

FOUNDED  
1413

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## Curriculum Development

The University will use all reasonable measures to deliver courses of study as they are outlined at the time of offer. However, as a research intensive institution, the University ensures that its teaching is based on and references the research and related interests of its staff, which may change from time to time. We are also mindful of the best use of our resources to ensure the highest quality experience for our students. As a result, programmes and modules are regularly reviewed with the aim of enhancing students' learning experience. Any changes are made with due consideration to minimising impact, safeguarding academic standards and assuring quality, and are described at: [www.st-andrews.ac.uk/media/teachin-and-learning/policies/course-revision-protocol.pdf](http://www.st-andrews.ac.uk/media/teachin-and-learning/policies/course-revision-protocol.pdf).

The Course Catalogue is also available online at:  
[www.st-andrews.ac.uk/coursecatalogue](http://www.st-andrews.ac.uk/coursecatalogue)

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## 1. Introduction to the Postgraduate Course Catalogue

The purpose of this Catalogue is to provide students with information on the structure of the taught postgraduate programmes, plus information on each of the modules that must, or may be, taken in such programmes or as part of a degree.

The order of entries within the Catalogue is alphabetical according to the Schools which offer taught postgraduate programmes (it should be noted that not all the Schools in the University offer such programmes in Session 2015 - 2016).

Each School section provides:

- i) a list of its postgraduate taught programmes.
- ii) individual documents for each degree including and details of all postgraduate compulsory and optional modules offered on that programme including the credit value and assessment procedures.

The modules included in these documents will normally be only those available in 2015 - 2016. This reflects the situation when this document goes to press, although there may be subsequent alterations due to unforeseen circumstances. Supplementary information will be made available on alterations to availability after the closing date for inclusion in this Catalogue. [www.st-andrews.ac.uk/coursecatalogue/pg/](http://www.st-andrews.ac.uk/coursecatalogue/pg/).

## 2. Taught Postgraduate Programmes

The MLitt, MSc and MRes normally comprise at least 120 credits in taught modules, of which a minimum of 90 credits should be from 5000-level modules, in an approved programme, plus a dissertation or research project.

The MPhil normally comprises 120 credits in taught 5000-level modules in an approved programme, plus a thesis. A student may transfer, subject to conditions, from the first year of taught study to the MPhil (see Regulations). The Postgraduate Diploma requires at least 120 credits of which a minimum of 90 credits should be from 5000-level modules in an approved programme. The Postgraduate Certificate requires at least 60 credits of which a minimum of 40 credits should be from 5000-level modules in an approved programme. It should be noted that some modules may be taken from outside the approved programme or from outwith the School's provision, but this is subject to permission being granted by the Heads of School concerned.

The award of these degrees is additionally subject to the criteria described in this policy

[www.st-andrews.ac.uk/media/teaching-and-learning/policies/PGT%20Credit%20Grades%20Awards.pdf](http://www.st-andrews.ac.uk/media/teaching-and-learning/policies/PGT%20Credit%20Grades%20Awards.pdf)

Further information on the structure of, and requirements for, the Masters programmes, and the Postgraduate Diploma and Postgraduate Certificate qualifications, including progression from the taught to research components of a specific degree programme may be found in the Policy for Supervisors and Students in Taught Postgraduate Programmes, available online from [www.st-andrews.ac.uk/staff/policy/tlac/postgraduate/taught/](http://www.st-andrews.ac.uk/staff/policy/tlac/postgraduate/taught/)

## 3. Explanation of fields in Module entries

### Explanation of Fields in Module Entries

**Module code and Title.** Module codes are unique. The third character indicates the module level.

**Academic Year.** The academic **session** (whether current or planned) in which the module will be offered.

**SCOTCAT Credits.** Credits are the number of points a specific module contributes towards a recognised degree programme and are grouped according to the **level** of academic content in the module. A student's studies towards a degree will be structured in terms of modules, each of which is assigned a credit value; so, for example, 1000-level modules in the School of Art History are worth 20 credits. One credit represents the outcome achievable by the average student through 10 notional hours of learner effort.

**SCQF Level.** The **Scottish Credit and Qualifications Framework (SCQF)** SCQF Levels provide an indication of the complexity of qualifications and learning programmes and are based on a single set of Level Descriptors that are the common reference points and definitions which provide a way of recognising learning that is outcome-based and quality-assured. 1000 level = SCQF 7, 2000 level = SCQF 8, 3000 level = SCQF 9, 4000 level = SCQF 10, 5000 level = SCQF 11.

**Semester.** The Semester or Semesters in which the module is taught, where 'either' means that the module is taught in both one or the other semesters, 'both' means being offered twice, and 'whole year' means that it is taught across the two semesters. The St Andrews teaching year has two semesters (September - December, and

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January - May). Students undertaking a full-time dissertation are expected to be resident within commuting distance of St Andrews from May to late August.

**Availability Restrictions.** If a module is available but with constraints, these particular restrictions will be clarified in this field.

**Planned Timetable.** Most 1000- and 2000-level modules are taught at a set hour, for one hour, although additional tutorial times and practical times may need to be arranged. If days of the week are not specified, the class meets every day from Monday to Friday, with the usual exception of Wednesday afternoons.

**Description.** A brief statement of the content of a module.

**Programme module type.** This indicates how the module fits into various programmes of study and whether it is compulsory or optional.

**Pre-requisite(s).** Second semester modules, and some others, may have pre-requisites, reflecting the assumption that they build upon previous knowledge gained.

**Co-requisite(s).** A module which must be taken in the same **semester** or academic session as the one listed.

**Anti-requisite(s).** Students may **not** take a module if they have already passed or are currently taking any module or other qualification specified as an anti-requisite to it.

**Required for.** Modules which require this module to be passed, as a pre-requisite to entry.

**Learning and Teaching Methods and delivery.** This gives **Weekly Contact**.

**Weekly Contact.** This will be an indication of the weekly teaching provision for each student. The normal teaching period will be of one hour unless indicated otherwise. Where the pattern of teaching varies from week to week, **the average weekly contact is given**. A tutorial is a discussion class of typically ten or fewer students. A seminar is typically a larger group, and may also involve student presentations and contributions as well as discussion.

**Assessment pattern.** A brief description of the distribution between coursework and formal examination. A percentage breakdown of which elements of assessment qualify in each Quality Assurance Agency (QAA) defined category are also given. These may match the narrative description ("As used by St Andrews"), or they may differ slightly because some elements of Coursework (Class Tests for example) can be considered Written Examinations in this context.

**Module Co-ordinator.** The academic member of staff responsible for this module, or the contact point for further information.

**Lecturer(s)/Tutor(s).** One or more academic members of staff who are planned to deliver the content of the module.

## 4. Glossary of other commonly used terms

**Academic Year.** An academic **year** is synonymous with academic **session** (September to September), and comprises two **semesters** and the summer period.

**Assessment.** The method by which the final grade for a module is determined. This can be made up of Coursework, Practical Examinations or Written Examinations, or combinations of more than one type of assessment.

**Common Reporting Scale (20-point)** This is a scale from 0 to 20.0 used for recording the grade achieved in the assessment of a module or elements of a module. Please see [www.st-andrews.ac.uk/media/teaching-and-learning/policies/PGT%20Credit%20Grades%20Awards.pdf](http://www.st-andrews.ac.uk/media/teaching-and-learning/policies/PGT%20Credit%20Grades%20Awards.pdf) for further information.

**Credit Loads.** Normally a full-time student will take modules worth 60 credits during each **semester**. Part-time students must take at least 20 credits per **semester** and no more than 80 credits each **session**.

**European Credit Transfer System (ECTS).** All modules have an accreditation in the ECTS scheme. Credits transferred to other institutions will be exactly half of the credits shown for each module. The grade for each module will be calculated according to established ECTS procedures and, therefore, it will not necessarily be the same as a grade for a module awarded by this University. For information about Credit & Grade Conversion for grades achieved on approved Study Abroad programmes, please see [www.st-andrews.ac.uk/studyabroad](http://www.st-andrews.ac.uk/studyabroad)

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**Failure to Register Policy.** This policy relates to students who fail to complete the registration process in any given academic year in which they are actively engaged with their studies, or who fail to obtain permission from the University to interrupt their studies. Failure to register by the published deadlines will result in termination of studies. For details see policy at:

<http://www.st-andrews.ac.uk/students/rules/matriculation/FailuretoRegisterPolicy-UGandPGT/>

**Faculty.** There are four faculties - Arts, Divinity, Medicine and Science. Although Arts and Divinity are treated as a single entity for administrative purposes.

**Grades.** A student who passes a **module** will have gained both **credits**, reflecting the workload and study time of the module, and a **grade**, reflecting the quality of the work. The grade is numeric and recorded on the **Common Reporting Scale**.

**Levels.** The level of academic content and externally assured outcomes of a module. There are five **Levels** of modules: 1000, 2000, 3000, 4000 and 5000. Normally the right of entry to a module is conditional upon a pass in one or more modules taken at a lower level of study. Thus, although the teaching, learning and **assessment** for a module may be self-contained, modules do not as a rule stand independent of each other. See also **SCQF Level**.

**Module.** Degree programmes are modular in structure. The key elements of a module are **SCOTCAT credits**, **levels** of study, title, **description** of content, requisites (pre-,co- or anti-), **assessment** requirements, and availability (**academic year** and **semester**). Each module will be a self-contained unit of teaching, learning and assessment. For the majority of modules teaching will take place in an 11-week teaching block, perhaps broken by a vacation, and in most cases will be followed by an examination. Others will be concentrated into a shorter period, and some will be taught over two semesters.

**Postgraduate Certificate.** The Postgraduate Certificate requires at least 60 credits of which a minimum of 40 credits should be from 5000-level modules in an approved programme..

**Postgraduate Diploma.** The Postgraduate Diploma requires at least 120 credits of which a minimum of 90 credits should be from 5000-level modules in an approved programme.

**Programme Requirements.** The combination of modules and credits required by year in order to be awarded a qualification.

**Qualifications.** Each type of qualification (eg, MLitt or MSc) is governed by a set of Senate Regulations, and is awarded under a specific Court Resolution. All taught courses require a generic programme specification published using the Scottish Credit and Qualifications Framework (SCQF).

**RPL - Recognition of Prior Learning** (RPL) is the recognition by the University of St Andrews, for its academic purposes, of prior learning that has taken place elsewhere. RPL may facilitate admission to a degree programme (undergraduate or postgraduate); provide advanced standing on a programme, or lead to the award of credit to count towards a programme's requirements. RPL may be as a result of Certificated Learning (RPCL) or Experiential Learning (RPEL).

**Semester.** The academic **session** is divided into two distinct teaching periods called **semesters**. Semester 1 runs from September to December, Semester 2 runs from January to May.

**Session.** An academic session comprises two **semesters** and the summer period.



**University of St Andrews**  
**Postgraduate Resolutions and Regulations - Academic Session 2015-16**

## **1. COURT RESOLUTIONS**

The University has the power to confer degrees under the various Court Ordinances and Resolutions detailed below. The full text of each can be found on the University Court website at <http://www.st-andrews.ac.uk/staff/policy/universitycourt/ordinanceandresolutionsoftheuniversitycourt/>. The Senatus Academicus, with the approval of the University Court, has the power to make regulations on any matters in order to give effect to these instruments.

- Ordinance No.6 (Scottish Universities) - Regulations for the Degree of Doctors of Letters (DLitt) (13 May 1959)
- Ordinance No.350 (General No.12) – Regulations for Research Students and Appointment of Research Fellows (12 September 1960)
- Resolution 1974 No.3 – Degree of the Doctor of Science (DSc) (18 March 1974)
- Resolution 2001 No.3 – Degrees of Doctor of Engineering (DEng), Master of Engineering (MEng), and Bachelor of Engineering (BEng) (8 March 2002)
- Resolution 2003 No.2 – Degree of Doctor of Medicine (MD) (4 July 2003)
- Resolution 2008 No.4 – Degree of Doctor of Performance (DPerf) (16 October 2009)
- Resolution 2011 No.1 – Award of Postgraduate Degrees, Postgraduate Diplomas and Postgraduate Certificates (13 May 2011)
- Resolution 2011 No.2 – Award of Graduate Diplomas and Graduate Certificates (13 May 2011)
- Resolution 2014 No.1 – Degree of Master of Fine Arts (20 June 2014)

## **2. SENATE REGULATIONS**

### **A. REGULATIONS FOR RESEARCH STUDENTS AND APPOINTMENT OF RESEARCH FELLOWS**

#### **I Interpretation**

1. In these Regulations, the following expressions shall have the meanings hereby assigned to them:

|                         |  |
|-------------------------|--|
| "LTC" means             | Learning & Teaching Committee or the standing Committee to which it may delegate the authority   |
| "Dean of Faculty" means | Dean of the relevant Faculty or such other Faculty Officer to whom the responsibility has been delegated                                     |
| "Head of School" means  | Head of School or Director of research institute or such other member of School or institute to whom the responsibility has been delegated". |
| "MLitt" means           | Master of Letters  |
| "MPhil" means           | Master of Philosophy   |
| "MFA" means             | Master of Fine Arts  |
| "MRes" means            | Master of Research   |
| "MSc" means             | Master of Science  |
| "DLang" means           | Doctor of Languages  |
| "PhD" means             | Doctor of Philosophy   |
| "MD" means              | Doctor of Medicine   |
| "DEng" means            | Doctor of Engineering  |

## II Admission

1. Applicants for admission to postgraduate research study must make written application to the University Admissions Office for consideration by the relevant School stating:
  - A. the nature of the academic or equivalent qualifications which they already possess;
  - B. the nature of the research they wish to pursue;
  - C. the names of at least two individuals who will be prepared to comment on their suitability as research students.
2. On receipt of the application the Head of School must be satisfied that:
  - A. the applicant is suitably qualified;
  - B. the research can be carried out effectively with the facilities available in the University or in exceptional circumstances in any institution approved by the Dean of Faculty;
  - C. a professor, reader or lecturer in the University, or in exceptional circumstances some other properly qualified person, is prepared to supervise the work OR that adequate and appropriate supervision can be provided.
  - D. an application for a research degree is considered by more than one member of the School's staff, at least one of whom should be research active, and with experience of the subject area.

The Head of School may recommend admission of applicants, who satisfy conditions A-C. The Vice-Principal (Proctor) has overall responsibility to monitor the management of postgraduate study.

3. Admitted applicants will normally be full-time students although those in full-time employment may not be so registered except with the written permission of their employer. Members of staff of the University may be permitted to register full-time if they can satisfy the Dean of Faculty that:
  - A. where they are funded from external sources, these bodies have given their permission;
  - B. the work on which they are engaged as full-time employees of the University is of sufficient scope and originality as to be appropriate for study as part of a higher degree;
  - C. the level and character of supervision offered to the member of staff is in no way incompatible with that normally associated with study for a higher degree;
  - D. that, to qualify for staff rates of fees, they satisfy the requirements that their contract must begin before or simultaneously with, the start of the degree course. Proof of staff status will be required prior to matriculating each year.

No students of the University who subsequently become employees during their studies are eligible for these concessions. Part-time students are only eligible if their contracts of employment reach the minimum 18.125 hours per week or 0.5fte and are on either a teaching contract of 10 months or more, or a non-teaching contract of 12 months or more.

Employees of the University who claim the concessionary staff rate may not simultaneously hold University scholarships or UK Research Council Scholarships for fees or living costs, and must have the permission of the head of their employing unit, and the Head of the School in which they will undertake the study, to apply for the concessionary fee.

Eligibility will be assessed by the University Fees Officer.

Where full-time registration by a member of staff is approved the appropriate full-time fee will be payable. Notwithstanding, members of staff in either full-time or part-time employment may choose to study part-time. Other applicants, who are not members of staff, may study part-time only if they can satisfy the Senatus Academicus that inadequate time is available for full-time study.

4. Overseas students whose first language is not English must provide evidence of competence in written and spoken English as well as meeting the other entrance requirements. A satisfactory result in a recognised test of English language competence, eg IELTS or TOEFL is acceptable.

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This test should be taken in the student's home country. If a student is admitted who does not have satisfactory scores, she/he is required to attend, and to attain a satisfactory standard in, a course in St Andrews in language, study skills and cultural orientation before the session begins.

5. Every research student shall be required to matriculate and pay the appropriate fee. All fees are subject to annual revision and the revised fees will apply to all students.

### **III Student Progress**

1. All postgraduate research students and supervisors are required to conduct their research and supervision in accordance with the requirements of the University's Policies for Supervisors and Students in Taught and Research Postgraduate Programmes.
2. All postgraduate research students shall be allocated supervision in accordance with the Policy for Supervisors and Students in Research Postgraduate Programmes.
3. All postgraduate research students are required to undertake postgraduate study and training as is laid down by the Postgraduate Research Committee and by the Head of School in which they undertake their research. This training is initially drawn up in a "schedule of research skills needs" at first matriculation and should include training in research methods and appropriate generic and transferable skills.
4. All research students will undergo a review as directed by the Head of School to determine whether progress is satisfactory and to determine the course of subsequent registration. This review will normally be conducted after six months (one year in the case of part-time students) and no later than twelve months after the initial date of matriculation as a research student. The Head of School will report to the Pro Dean (Postgraduate Research) the result of the review and will recommend registration for the degree of PhD, or DLang, or MD, or DEng, or MPhil, or MFA, or MLitt, or MRes, or MSc, or for the Postgraduate Diploma, as appropriate. Further progress reviews will be made on an annual basis as appropriate. Such reviews will examine progress made with the schedule of research training needs.
5. If serious problems emerge regarding a student's progress at times other than the annual review the matter must be reported to the Head of School. After discussions with the supervisors and if the Head of School is satisfied that a problem exists the student should be warned in writing with a copy to the relevant Pro Dean (Postgraduate Research). If problems persist the Head of School may recommend termination of studies to the Pro Dean (Postgraduate Research) and the matter will be decided by the relevant Dean who alone has the right to terminate a student's studies.
6. A research student shall have the right of appeal against a decision made under the procedures in 4 and 5, above in accordance with the Policy on Student Academic Appeals and Academic Complaints.
7. If academic misconduct relating to work assessed as part of a qualification awarded by the University of St Andrews is at any time proven against someone holding such a qualification, the University reserves the right to withdraw or reclassify the qualification awarded.

**B. POSTGRADUATE DIPLOMAS AND DEGREES OF MASTER OF FINE ARTS, MASTER OF LETTERS, MASTER OF SCIENCE, MASTER OF RESEARCH AND MASTER OF PHILOSOPHY**

**I Interpretation**

1. In these Regulations, the following expressions shall have the meanings hereby assigned to them: -  
"LTC" means the "Learning & Teaching Committee or the standing Committee to which it may delegate the responsibility";  
"Dean of Faculty" means the "Dean of the relevant Faculty or such other Faculty Officer to whom the responsibility has been delegated";  
"Head of School" for the " Head of School or director of research institute or such other member of school or institute to whom the responsibility has been delegated".  
"MFA " means "Master of Fine Arts"  
"MLitt" means "Master of Letters"  
"MSc" means "Master of Science"  
"MPhil" means "Master of Philosophy"  
"MRes" means "Master of Research"  
"Taught degree Programme" for "programme of study for the award of Postgraduate Certificate, Postgraduate Diploma, MFA, MLitt, MSc, MPhil"

2. All programmes leading to Postgraduate certificates, diplomas of Masters Degrees must accord with the SCQF framework.

**II Postgraduate Certificates, Diplomas and Postgraduate Degrees with a Taught Element**

1. A candidate who has, over a period of not more than one semester for a full-time student, and two semesters for a part-time student:
  - A. gained at least 60 credits in an approved Programme; and
  - B. satisfied the Committee of Examiners for that Programme; and
  - C. satisfied the fee requirement,shall be awarded the Graduate Certificate.
2. A candidate who has, over a period of not more than one semester for a full-time student, and two semesters for a part-time student:
  - A. gained at least 60 credits, of which at least 40 credits are at 5000-level, in an approved Programme; and
  - B. satisfied the Committee of Examiners for that Programme; and
  - C. satisfied the fee requirement,shall be awarded the Postgraduate Certificate.
3. A candidate who has, over a period of not more than one year for a full-time student, and two years for a part-time student:
  - A. gained at least 120 credits in an approved Programme; and
  - B. satisfied the Committee of Examiners for that Programme; and
  - C. satisfied the fee requirements,shall be awarded the Graduate Diploma.

4. A candidate who has, over a period of not more than two semesters for a full-time student, or the part-time equivalent:
  - A. gained at least 120 credits, of which 90 credits are at 5000-level, in an approved Programme; and
  - B. satisfied the Committee of Examiners for that Programme; and
  - C. satisfied the fee requirements,
 shall be awarded the Postgraduate Diploma.
5. Unless otherwise stated in an agreement with another institution, a candidate who has:
  - A. gained at least 180 credits, of which at least 150 are at 5000-level, in an approved Programme over a period of not more than one year for a full-time student and two years for a part-time student, submitted a dissertation or equivalent, and satisfied the Committee of Examiners in the assessments for that Programme and in the dissertation; and
  - B. satisfied the fee requirements,
 shall be awarded the degree of MLitt or MSc or MRes, as appropriate.
6. A candidate who has:-
  - A. gained at least 120 credits in an approved Programme over a period of not more than one year for a full-time student and two years for a part-time student and satisfied the Committee of Examiners in the assessment for the Programme; and
  - B. submitted a thesis completed during a further period of twelve months (or its equivalent for a part-time student) or, within a programme approved by the Dean, the equivalent and appropriate alternative assessment and
  - C. satisfied the fee requirements,
 shall, if the thesis is approved, be awarded the degree of MPhil.
7. The Postgraduate MSc or MLitt Erasmus Mundus Masters (Dual/Multiple award) will be awarded for the completion of a programme consisting of at least 180 credits at 5000-level. A minimum 50% of the credits obtained must be completed at St Andrews or as part of a previously approved joint programme offered with another HE institution. The remaining credits must be completed at an already recognised institution or institutions as part of an approved Erasmus Mundus agreement. The degree awarded by St Andrews will indicate that the MSc/MLitt Erasmus Mundus Masters (Dual/Multiple) was completed in association with the Partner Institutions. Students who undertake such a programme and achieve 120 credits, of which at least 60 credits were from the University of St Andrews, but select not to progress to one of the partner institutions may be awarded a Postgraduate Diploma.

### **III Admission**

1. To qualify for admission to a taught degree Programme a candidate must have obtained a degree from a university of the United Kingdom or other qualification(s) deemed equivalent by the Dean of Faculty. Suitably qualified applicants may be admitted direct to the second year of studies leading to the degree of MPhil.
2. The following categories of student may make application to the Dean to have their registration transferred to study for the degree of MLitt or MSc or MRes and may count towards the requirement of that degree such number of months of full-time study (or their part-time equivalent) as have been completed since their date of first matriculation:
  - A. students who have satisfactorily completed six months of study under Research Ordinance 12;
  - B. students attending a Postgraduate Diploma Programme who, on the recommendation of their supervisor, are deemed able to submit a dissertation of sufficient quality. Students who gain the requisite grades in the taught element are automatically entitled to continue to the

dissertation.

3. The following categories of student may make application to the Dean of Faculty to transfer to the second year of study for the degree of MPhil or MFA and may count towards the requirement of that degree such number of months of full-time study (or their part-time equivalent) as have been completed since their date of first matriculation:
  - A. students who have satisfactorily completed six months of study under Research Ordinance 12 and who are deemed fit to undertake independent research;
  - B. students attending a taught Programme who, on the recommendation of their supervisor, are deemed fit to undertake independent research.
4. Applications for admission to a taught postgraduate programme must be submitted to the University Admissions Office, which shall have power, after consultation with the relevant School/s, to admit applicants who are deemed to satisfy the requirements referred to in this Regulation.
5. No applicant shall be eligible for admission and no student would be allowed to matriculate who would thereby be registered simultaneously on programmes leading to awards in more than one institution, except a) under the terms of an agreement between the University and that institution, or b) with the permission of the Dean of the relevant Faculty.

#### **IV Full-time and Part-time Study**

1. Applicants will be admitted only as full-time students, except in the case of members of the University staff, or entrants to such Postgraduate Diploma Programmes as the Senatus Academicus may approve, or direct entrants to the second year of study for the degree of MPhil.
2. All students shall, for the duration of a Programme taught solely in St Andrews, be resident in St Andrews or its immediate vicinity.
3. The Dean of Faculty may permit candidates for the degree of MPhil who have been permitted to proceed to the second year of study to prosecute their studies elsewhere than in the University, provided that the Dean is satisfied that the necessary facilities exist for the prosecution of the research and that it is being carried out under adequate supervision.
4. Students may be admitted to, or be permitted to transfer to, part-time study if they can satisfy the Dean of Faculty that inadequate time is available for full-time study.

#### **V Nature and Duration of the Postgraduate Diploma Programme**

1. The Senatus Academicus, on the recommendation of the Dean of Faculty, shall prescribe the subjects in which taught Programmes may be offered.
2. Each Postgraduate Diploma Programme shall last for not less than nine months and not more than twelve months for full-time students, and normally not less than twenty-one months and no more than twenty-four months for applicants admitted as part-time students.
3. Each Postgraduate Diploma Programme shall consist of modules worth at least 120 credits.
4. The Dean of Faculty shall approve, for each Programme, the modules which are available to students on that Programme and, for each module, the method of assessment and the credits to be awarded to a student who gains a pass grade in that module.
5. The assessment for a module shall be by examination, by continuous assessment of course work, or by a combination of both.
6. The Head of School shall appoint a person to supervise the student's studies, to whom the student shall report at least monthly and on such other occasions as the supervisor may require. In exceptional circumstances, the Head of School may appoint an additional supervisor from within or outwith the University. Where a student requires to study for a period outwith St Andrews, the Dean of Faculty shall appoint an additional external supervisor. Nominations of supervisors and changes of supervisors must be reported to the Pro Dean (Taught Postgraduate).
7. Candidates whose progress is deemed by the Head of School to be unsatisfactory may be required by the Dean of Faculty to terminate their studies at any time of the year. Students who fail to satisfy the requirements of a module by failure to submit work within stipulated deadlines

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and after due warning, or who have been absent from the teaching of a module for 3 continuous weeks, shall, save in exceptional circumstances and with the permission of the Pro Dean (Taught Postgraduate), have forfeited the right to continue to attend the module, and shall have their studies terminated.

8. All students shall matriculate in each year of study, and shall commence their studies no later than two weeks after the beginning of the Programme.

## **VI Registration**

1. A student's progress shall be reviewed at the end of the first semester of study, and any recommendation for re-registration by the supervisor in consultation with the Head of School shall be made to the Dean of Faculty.

## **VII Examinations**

1. Each candidate shall be examined by a Board of Examiners, consisting of the professors, readers and lecturers and any staff nominated through the Dean to the Board of Examiners who conduct the Programme and such external examiner(s) as the Vice-Principal (Proctor) may appoint.
2. Having completed all the work of a module, candidates shall complete the assessment for the module by the end of the diet of examinations held at the end of the semester in which teaching for the module ceases.
3. If a candidate fails to complete the assessment for a module through illness or other good cause, the Board of Examiners may arrange such special examinations outside the normal diet and/or examine such submitted work as they deem necessary.
4. Where a student fails the assessment for a module, the Board of Examiners may offer a re-assessment, the exact form of which must be approved by the External Examiner. Reassessed work will be marked either pass or fail. It will not be graded on the 20-point scale. A student who achieves a Pass may be eligible for the Certificate or Diploma but not the Masters. The only exception to this Regulation is the European Master of Science in Photonics which allows students to undertake reassessment and have the work graded on the 20-point scale.
5. Once a pass grade has been achieved in a module a student cannot re-register for the module.
6. A written report, signed by the Board of Examiners, on each candidate who completes the Graduate Certificate or Diploma Programmes shall be submitted to the Dean of Faculty and shall recommend that:-
  - A. in the case of a candidate for the Graduate Certificate either:
    - i. the Graduate Certificate be awarded; or
    - ii. the candidate be allowed to re-register for either the Graduate Diploma.; or
    - iii. the candidate not having achieved the required standard, no award should be made.
  - B. in the case of a candidate for the Graduate Diploma either:
    - i. the Graduate Diploma be awarded; or
    - ii. the candidate not having achieved the required standard, the Graduate Certificate be awarded.; or
    - iii.the candidate not having achieved the required standard, no award should be made.
  - C. in the case of a candidate for the Postgraduate Certificate either:
    - i. the Postgraduate Certificate be awarded; or
    - ii. the candidate be allowed to re-register for the Posgraduate Diploma; or
    - iii. the candidate not having achieved the required standard, no award should be made.

- D. in the case of a candidate for the Postgraduate Diploma either:
  - i. the Postgraduate Diploma be awarded; or
  - ii. the candidate be allowed to re-register for the degree of either MLitt, MSc, MFA, MPhil or MRes; or
  - iii. the candidate not having achieved the required standard, the Postgraduate Certificate be awarded; or
  - iv. the candidate not having achieved the required standard, no award should be made.
- E. in the case of a candidate for the degree of MLitt or MSc or MRes either:
  - i. the candidate be allowed to re-register for the degree of MFA or MPhil; or
  - ii. the candidate be allowed to proceed to present the dissertation; or
  - iii. the candidate be awarded the Postgraduate Diploma; or
  - iv. the candidate not having achieved the required standard, no award should be made.
- F. in the case of a candidate for the degree of MFA either:
  - i. the candidate be allowed to proceed to the second year of study; or
  - ii. the candidate be allowed to re-register for the degree of MLitt
  - iii. the candidate be awarded the Postgraduate Diploma; or
  - iv. the candidate not having achieved the required standard, no award be made.
- G. in the case of a candidate for the degree of MPhil either:
  - i. the candidate be allowed to proceed to the second year of study; or
  - ii. the candidate be allowed to re-register for the degree of MLitt or MSc or MRes; or
  - iii. the candidate be awarded the Postgraduate Diploma; or
  - iv. the candidate not having achieved the required standard, no award be made.

Students who attain the appropriate grade may, at the discretion of the Board of Examiners, be recommended for the award of the degree/diploma with Distinction in relation to the whole, or to the dissertation, or the taught component.

- 7. The supervisor shall provide candidates who are proceeding to studies for the degree of MLitt or MSc or MPhil or MRes with a report of their performance in the Postgraduate Diploma Programme.
- 8. Candidates whose progress is deemed by the Head of School to be unsatisfactory may be required by the Dean of Faculty to terminate their studies at any time of the year. Students who fail to satisfy the requirements of a module by failure to submit work within stipulated deadlines and after due warning, or who have been absent from the teaching of a module for three continuous weeks, shall, save in exceptional circumstances and with the permission of the Pro Dean (Taught Postgraduate), have forfeited the right to continue to attend the module, and shall have their studies terminated.

### **VIII Dissertation for MLitt, MSc and MRes**

- 1. The dissertation shall be submitted not later than twelve months from the date of the commencement of the Programme or the equivalent for part-time students, or according to specific regulations pertinent to the programme of study. Exceptionally a candidate may be permitted a further period of three months in which to submit the dissertation.
- 2. Unless otherwise stated in an agreement with another institution or, with the special permission of the Dean of Faculty, the dissertation shall be written in English and shall not exceed 15,000 words. Within a programme approved by the Dean, the dissertation may be replaced by a form of assessment which has equivalent academic standing.
- 3. The dissertation shall be prefaced with a declaration that it has been composed by the candidate,

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that the work of which it is a record has been done by the candidate alone, and that it has not been accepted in any previous application for any degree.

4. Two copies of the dissertation shall be submitted and shall be typed and stapled or bound but shall not be required to be deposited in the University Library. One copy may, however, be retained in the School.
5. The dissertation shall be examined by at least two examiners.
6. The Board of Examiners shall, on the basis of the written report of the examiners for the taught class examination and of their assessment of the dissertation and, if applicable, any oral examination required, recommend to the Senatus Academicus, through the Dean, either:
  - A. that the degree of MLitt or MSc or MRes be awarded; or
  - B. that, in the event of the Dissertation not reaching the required standard, the Graduate Diploma be awarded (unless otherwise stated in an agreement with another institution).

The Board of Examiners may recommend the award of the degree with Distinction in relation to the whole or the dissertation or the taught component.

7. A candidate who has been permitted to proceed to the dissertation element of the MLitt or MSc or MRes but does not submit the dissertation may apply to the Senatus Academicus for the award of the Postgraduate Diploma.

#### **IX Thesis for MPhil**

1. The thesis shall be submitted not later than the end of the second year of study, or the equivalent period for a part-time student. Exceptionally a candidate may be permitted a further period of six months within which to submit the thesis. The thesis is expected to constitute an original contribution to knowledge consistent with what may reasonably be expected of a diligent student after one year of full-time research. It should be clearly written, well argued and should indicate a satisfactory knowledge of the field of study.
2. The topic of the thesis shall be registered with the Dean of Faculty not later than the start of the session following the satisfactory completion of the Postgraduate Diploma Programme. Candidates admitted direct to the second year of study shall register their topic within three months of matriculation.
3. The thesis shall be written in English unless, where the original intention was a PhD, the Dean of Faculty has given special permission for another language to be used.
4. The normal maximum length of the thesis will be 40,000 words, excluding bibliography. Within a programme approved by the Dean of Faculty, the thesis may be replaced by a form of assessment which has equivalent academic standing. For the MFA degree, the normal maximum length of the thesis will be no more than 40,000 words for creative prose. Alternatively, for writers of verse, the submission of a collection of part thereof, of poetry comprising of approximately 40 pages will be accepted; for writers of performance, a thesis comprising of approximately 90 minutes of performance will be accepted.
5. Three complete copies of the thesis shall be submitted in typescript and in secure but temporary binding. There shall be an adequate margin on each page. After the examination has been completed, one copy shall be bound in an approved style at the candidate's expense and shall be deposited in the University Library. The candidate shall also, unless previously agreed, provide an electronic copy of the thesis in an approved format.
6. An abstract (not exceeding 300 words in length) of the thesis shall be submitted for the approval of the examiners. In the case of a thesis written in a foreign language there shall be a summary in English of between 1,000 and 3,000 words, in addition to an abstract in English. The abstract (and, where appropriate, the summary) shall be bound in with the thesis.
7. In exceptional circumstances the Dean of Faculty may give permission for the thesis to be

presented in a different medium.

8. The introduction to the thesis shall be prefaced by:
  - A. a declaration that the thesis has been composed by the candidate, that the work of which it is a record has been done by that candidate, and that it has not been accepted in any previous application for any degree;
  - B. a statement of the date of the candidate's admission as a research student;
  - C. a statement by the supervisor that the Regulations have been fulfilled; and
  - D. a statement of access or embargo to print and/or electronic copy of the thesis;
  - E. where a third party has been utilised to correct the written language in the thesis, a statement indicating that such assistance has been used.
9. The thesis shall give evidence of the candidate's capacity for independent research.
10. Reprints of published papers are not accepted in lieu of the formal thesis, which should take the form of a specially composed monograph.
11. For the thesis at least two examiners shall be appointed, one of whom must be an external examiner. The supervisor may not normally be a member of the Examining Committee, although the Examining Committee may invite the supervisor to submit a report and attend any oral examination deemed necessary by the examiners.
12. The examiners shall recommend to the Dean either:
  - A. that the thesis be approved and the degree of MPhil or MFA be awarded, save for the making of any purely typographical corrections and revisions; or
  - B. that the thesis be not accepted in its present form but that the candidate be given the opportunity to make minor corrections to the thesis within a period of three months of the date of the examination, and that upon the Convener of the committee being satisfied that these minor corrections have been effected, the thesis be approved and the degree of MPhil or MFA be awarded; or
  - C. that the thesis be not accepted in its present form but that the candidate be given the opportunity to revise the thesis and resubmit it for re-examination within six months from the date of intimation to the candidate of the decision of the Dean of Faculty - this recommendation meaning that the candidate must resubmit a corrected thesis, pay a resubmission fee, and be re-examined, though the examiners have the right to waive a further oral examination; or
  - D. that the thesis be rejected, and that the candidate be awarded the degree of MLitt, or MSc; where so qualified; or
  - E. that no award be made. This may not be the recommendation at the first presentation of the thesis.
13. The Dean, having satisfied itself that all requirements of the Regulations have been observed, shall transmit the joint recommendations of the examiners to the Senatus Academicus.
14. A student who has been permitted to proceed to the MPhil or MFA dissertation but who does not submit the thesis may apply to the Senatus Academicus for the award of the degree of MLitt or MSc or Postgraduate Diploma where so qualified.

#### **X Resubmission**

1. If a recommendation to the Senatus Academicus is made for resubmission by an examining committee the candidate shall receive in writing from the convener of the committee a detailed list of corrections and revisions deemed to be necessary by the examiners. The candidate shall be expected to take these into account in any resubmission of the thesis.
2. On resubmission of the thesis and payment of the appropriate fee the examining committee shall be reconvened and a further examination be conducted. The convener of the committee may recommend to the Dean that the requirement of the oral examination be waived, if it is the unanimous opinion of the examining committee that the thesis should be accepted.
3. In the event of an oral examination being required, the Dean shall recommend the appointment of



an appropriate neutral third party observer.

4. If the original examining committee cannot be reconvened then the Senatus Academicus shall have the power to appoint a new committee to examine the thesis.
5. The examining committee shall make one of the following recommendations to the Senatus Academicus:
  - A. that the thesis be approved and the degree of MPhil or MFA be awarded, as appropriate; or
  - B. that the thesis be rejected, and that the candidate be awarded the degree of MLitt or MSc where so qualified; or
  - C. that no award be made.

## **C. DEGREE OF DOCTOR OF PHILOSOPHY (PhD)**

### **I Interpretation**

1. In these Regulations, the following expressions shall have the meanings hereby assigned to them:

"LTC" for Learning & Teaching Committee or the standing Committee to which it may delegate the authority

"Dean of Faculty" means the "Dean of the relevant Faculty or such other Faculty Officer to whom the responsibility has been delegated"

"Head of School" means the "Head of School or director of research institute or such other member of school or institute to whom the responsibility has been delegated".

"PhD" means "Doctor of Philosophy and for the purposes of these regulations is understood to include DLang (which means Doctor of Languages) when DLang is not explicitly stated"

"MLitt" means "Master of Letters" "MPhil". means "Master of Philosophy"

### **II Admission**

1. The Senatus Academicus may admit as candidates for the Degree of PhD persons who have been admitted as research students of the University and who have been recommended to register as PhD students by the Dean of Faculty. In exceptional circumstances the Senatus Academicus may admit as a candidate for the degree of PhD a student who can satisfy the Dean of Faculty that (s)he already has adequate qualifications and for whom a supervisor can be appointed.
2. A PhD student shall matriculate and pay the appropriate fee each year.
3. Before admission as a candidate for the degree of DLang a postgraduate student must have qualified for the award of the degree of MLitt within the School of Modern Languages.
4. The Senatus Academicus may enter into an agreement with other universities including those overseas to permit joint supervision of students studying for doctorates leading to joint degrees.
  - A. Where such agreements have been made, the Senatus Academicus may admit a student who can satisfy the Dean of Faculty that (s)he is adequately qualified and that suitable supervisory and monitoring arrangement(s) can be made in both institutions into a jointly supervised Degree Programme.
  - B. Appropriate joint Agreement(s) shall be signed between the two institutions. The purpose of the Agreement(s) is:
    - i. to delineate the collective and individual responsibilities of the Institutions in relation to the provision, management, monitoring, evaluation and development of the Programmes.
    - ii. to agree a Programme for each individual student.
  - C. One of the two institutions will act as the lead institution and the student will then be subject to the academic regulations of the lead institution.

- D. An appropriate arrangement as to payment and distribution of fees will be made between the two institutions concerned.
- E. There is no requirement for such students studying for a DLang to qualify first for an MLitt.

### **III Full-time and Part-time Study**

- 1. Candidates in full-time employment may not register as full-time students except with the written permission of their employer.

### **IV Duration and Place of Study**

- 1. Every candidate for the Degree of PhD, except under 2 below, shall pursue a course of special study or research in the University of St Andrews during a period of three years or its equivalent for part-time students.
- 2. Where students have been admitted under II (4) their studies will be pursued in both institutions for such periods of time as are jointly agreed or, with the permission of the Deans or similar Faculty Officers of both institutions, at an external location provided that the Deans are satisfied that the necessary facilities exist for the pursuit of the special study or research and that it will be done under adequate supervision.
- 3. The Senatus Academicus shall have the power to permit candidates on the recommendation of the Dean to pursue elsewhere their special study and research during the whole or part of the period, provided that the Senatus is satisfied that the necessary facilities exist for the pursuit of the special study or research and that it is being done under adequate supervision.
- 4. Where a supervisor joins the staff of the University of St Andrews, the Dean shall have the power to admit the PhD students of that member of staff to the University, accrediting the research performed by that student in his/her previous institution. The student will be able to graduate with a PhD from the University of St Andrews if the period of full registration at St Andrews equals or exceeds one year. If the student's full registration at St Andrews is less than one year, then the student can be admitted to the University but will have to submit the research for examination by the original institution. It is the incoming student's responsibility to ensure that such arrangements do not infringe the regulations of the original institution.
- 5. Work done during any academic year may be reckoned as having been pursued over twelve months for a full-time student and over six months for a part-time student, unless otherwise agreed by the Dean of Faculty on the recommendation of the supervisor.
- 6. Work done during a summer vacation may be reckoned as having been carried out during three months (six weeks for part-time students) provided that the supervisor certifies it as being equivalent to three months of full-time study (or six weeks of full-time study for part-time students).
- 7. The thesis shall be normally presented after 3 years and after no more than 4 years of study as a matriculated student or the equivalent for part-time students, except where external bodies stipulate otherwise. Exceptionally the thesis may be presented after 2 years of study as a matriculated student, or the equivalent for part-time students.

### **V Nature of Study**

- 1. The degree of PhD is granted only for original research or higher study the result of which is presented in a specially composed thesis or as a portfolio of published work. The original research or higher study must be carried out on a topic approved by the Head of School who shall appoint a supervisor. The thesis or portfolio shall constitute a significant and original contribution to knowledge or understanding consistent with what may reasonably be expected of a diligent student after three years of full-time study. It should be clearly written, well argued and should indicate a satisfactory knowledge of the field of study. It should contain material worthy of publication in some form.
- 2. All research students and supervisors are required to conduct their research and supervision in accordance with the requirements of the University's Policies for Supervisors and Students in Taught and Research Postgraduate Programmes.
- 3. The work of all PhD students will be reviewed annually prior to the submission of the

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thesis and the results reported to the Dean of Faculty. The first annual review, which will be conducted by the Head of School and which will normally occur at the end of the first year of study after registration as a general research student, will recommend either continuance of registration as a PhD student or transfer of registration to that of an MPhil student. The second annual review will take place by the end of the second year of study. An important part of this review is to produce an agreed timetable for submission of the thesis.

#### **V1 Methods for Presentation**

1. Candidates for the Degree of PhD may be examined by one of two methods. Normally the candidate will be expected to submit a thesis embodying the results of his or her special study or research. Alternatively, a candidate may apply to be examined for the Degree of PhD on the basis of a portfolio of published work.

#### **VII Thesis**

1. The thesis shall be written in English and should take the form of a specially composed monograph. In exceptional circumstances, or routinely for the School of Modern Languages, the Dean may give permission for another language to be used.
2. The normal maximum length of the thesis will be 80,000 words excluding bibliography.
3. Three complete copies of the thesis shall be submitted in typescript and in secure but temporary binding. There shall be an adequate margin on each page. After the examination has been completed, one copy shall be bound in an approved style at the candidate's expense and shall be deposited in the University Library. The candidate shall also, unless previously agreed, provide an electronic copy of the thesis in an approved format.
4. In exceptional circumstances the Dean may give permission for the thesis to be presented in a different medium.
5. An abstract (not exceeding 300 words in length) of the thesis shall be submitted for the approval of the examiners. In the case of a thesis written in a language other than English there shall be an English translation of the title, and a summary in English of between 2,000 and 3,000 words, in addition to an abstract in English. The abstract (and where appropriate, the summary) shall be bound in with the thesis.
6. The thesis shall be prefaced by:
  - A. a declaration that the thesis has been composed by the candidate, that the work of which it is a record has been done by that candidate, and that it has not been accepted in any previous application for any degree;
  - B. a statement of the date of the candidate's admission as a research student;
  - C. a statement by the supervisor that the Regulations have been fulfilled; and
  - D. a statement of access to or embargo of the print and/or electronic version of the thesis;
  - E. where a third party has been utilised to correct the written language in the thesis, a statement indicating that such assistance has been used.
7. Where students have been admitted under II (4) the following additional regulations shall apply.
  - A. The thesis shall be prepared according to the joint agreements. The thesis will be written in a language agreed between the two Institutions, which would normally be either English or, if the partner institution is overseas, the language used by the overseas Institution.
  - B. An abstract of the thesis must be presented in English.
  - C. Two copies of the complete and finally approved thesis shall be submitted bound at the candidate's expense to be deposited in the University Library. In the case of the thesis not being written in the English language, a summary in English of between 2000 and 3000 words shall be bound in with the thesis.
  - D. In addition to any other declarations required to be made by the candidate for inclusion in

the thesis, there shall be a declaration that the thesis has been composed by the candidate under a Joint Thesis Sponsorship scheme between the Universities of St Andrews and (the other institution) and that the work contained in this thesis has not been accepted in any previous application for a degree.

### **VIII Portfolio of Published Work**

1. Academic staff of at least three years' standing or matriculated students may apply to the relevant Dean for permission to submit a portfolio of published work such as books or papers in refereed journals. The Faculty shall seek the comments of the appropriate School in the University on the acceptability of the submission and in the case of a submission by a matriculated student similar comments from the student's supervisor.
2. Any publications submitted must already be published and in the public domain.
3. The application shall be accompanied by the following documents:
  - A. An abstract in English of the published work
  - B. Details of the published work included in the portfolio
  - C. Approval from the holder(s) of copyrights if required.
  - D. In the event of the inclusion of works by multiple authors a statement by the major author(s) of publications indicating the candidate's contribution to the work in the three critical areas of conception, execution and writing.
  - E. Where a third party has been utilised to correct the written language in the thesis, a statement indicating that such assistance has been used.
4. The standard of the submission should be equivalent to that expected from a diligent student after a period of three years, or 3.5 years, of full time study, depending on norms for the subject area, and be of scholarly standard expected for the degree of PhD.
5. Upon permission to submit being granted the candidate shall submit three copies of the portfolio each containing the abstract and a critical discussion of the work.
6. The critical discussion should summarise the aims, objectives, methodology, results and conclusions covered in the portfolio. It should also indicate how the publications form a coherent body of work, what contributions the candidate has made to this work, and how the work contributes significantly to the expansion of knowledge. It should be at least 10,000 words, but not more than 25,000 words in length.
7. The portfolio shall be accompanied by a declaration that none of the work contained in the books or papers submitted has been submitted by the candidate for a higher degree in any other university.

### **IX Examination of Candidates Presenting by Thesis**

1. The Senatus Academicus shall appoint a committee to examine the thesis and report on it to the Senatus Academicus. The committee shall normally consist of two examiners, one of whom shall be an external examiner. An internal examiner shall be appointed, who (for administrative purposes) shall act as convener of the committee.
2. In the case of an employee of the University, the examining committee shall consist of an internal examiner who shall act as convener and two external examiners.
3. The examiners appointed by the Senatus Academicus shall submit independent written reports without consultation on the thesis. These independent reports must be completed and a copy returned to the Registry before any oral examination of the candidate takes place. In addition the supervisor of the thesis shall submit a written report to the examining committee detailing any special circumstance that may have affected the candidate's performance but making no comment relating to the quality of the work.
4. The committee shall require the candidate to submit to an oral examination. In exceptional circumstances and only with the express approval of the Dean the requirement of an oral examination may be waived.
5. The examining committee shall bear in mind that their judgement of the substantial significance

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of the thesis should take into account what may be reasonably expected of a capable and diligent student after three years of full-time study.

6. The examination of the thesis by the committee should normally be completed within three months of the date of submission. If the examining committee is unable to convene within three months then the Dean of Faculty shall be empowered to authorise a short extension of the examining period or to advise the Senatus Academicus that a new committee should be appointed.
7. No candidate may submit a thesis until the appropriate fee requirement has been met.
8. Where students have been admitted under II (4) the following additional regulations apply.
  - A. The examination of the thesis shall take place according to the rules and procedures of the lead institution subject to any additional clauses in the joint agreements.
  - B. The degree certificate must contain a form of words that makes it clear that the single degree is jointly awarded by the two institutions concerned.
  - C. Appointments of external examiners shall be agreed by both institutions.
9. The examining committee shall make one of the following recommendations to the Senatus Academicus:-
  - A. that the thesis be approved and the degree of PhD/DLang/EngD be awarded without corrections; or
  - B. that the thesis be approved and the degree of PhD/DLang/EngD be awarded, subject to the making of any purely typographical corrections and revisions; or
  - C. that the thesis be not accepted in its present form but that the candidate be given the opportunity to make minor corrections within a period of three months of the date of the examination and that, upon the convener of the committee being satisfied that these minor corrections have been effected, the thesis be approved and the degree of PhD/ DLang/EngD be awarded; or
  - D. that the thesis be not accepted in its present form but that the candidate be given the opportunity to revise the thesis or portfolio and resubmit it within twelve months from the date of intimation to the candidate of the decision of the Examining Committee—this recommendation meaning that the candidate must resubmit a corrected thesis, pay a re-examination fee, and be re-examined, though the examiners have the right to waive a further oral examination; or
  - E. that the thesis not being of sufficient merit, the candidate may resubmit the thesis within twelve months for a further examination for the award of PhD/ DLang/EngD - this recommendation meaning that the candidate must resubmit a corrected thesis, pay a re-examination fee, and be re-examined, with a further oral examination; or
  - F. that the thesis not being of sufficient merit, the candidate may resubmit the thesis within twelve months for a further examination for the award of MPhil. - this recommendation meaning that the candidate must resubmit a corrected thesis under the regulations for the degree of MPhil., pay a re-examination fee, and be re-examined, though the examiners have the right to waive a further oral examination; this recommendation may be offered to the candidate at the same time as recommendation v. as an alternative option, but may not be the only recommendation at the first presentation of the thesis; or
  - G. that the thesis be rejected and no award made. This may not be the recommendation at the first presentation of the thesis.

#### **X Examination of PhD by Portfolio of Published Work**

1. An examination fee, to be set annually by the university, shall be paid before the examination takes place.
2. Examinations of a portfolio of work submitted for the PhD shall follow the same procedures as for a PhD by thesis with the following exceptions:
  - A. Subject to the approval of the Faculty the School concerned may request that the

examining committee should consist of an internal convener and two external examiners.

- B. In the event of jointly authored work being submitted the examining committee shall be required to comment upon the extent to which the candidate has contributed in the three critical areas of conception, execution and writing. They should indicate their approval that the combination of contributions in these areas is of the level expected for a PhD.
3. After the examination has been completed, two copies of the abstract, portfolio and critical discussion shall be bound in an approved style at the candidate's expense and shall be deposited in the University Library.

#### **XI Resubmission**

1. If a recommendation to the Senatus Academicus is made for resubmission by an examining committee the candidate shall receive in writing from the convener of the committee a detailed list of corrections and revisions deemed to be necessary by the examiners. The candidate shall be expected to take these into account in any resubmission of the thesis.
2. On resubmission of the thesis and payment of the appropriate fee the examining committee shall be reconvened and a further examination be conducted. The convener of the committee may recommend to the Dean of Faculty that the requirement of an oral examination be waived, if that is the unanimous opinion of the examining committee.
3. In the event of an oral examination being required, the Dean of Faculty shall recommend the appointment of an appropriate neutral third party observer.
4. If the original examining committee cannot be reconvened then the Senatus Academicus shall have the power to appoint a new committee to examine the thesis
5. The examining committee shall make one of the following recommendations to the Senatus Academicus:
  - A. that the thesis be approved and the degree of PhD be awarded; or
  - B. that, the thesis being of sufficient merit, the candidate be awarded the degree of MPhil; or
  - C. that the thesis be rejected.

#### **D. DEGREE OF DOCTOR OF PHILOSOPHY IN CREATIVE WRITING (PhD)**

##### **I Interpretation**

1. In these Regulations, the following expressions shall have the meanings hereby assigned to them:-

“Dean of Faculty” means the “Dean of the relevant Faculty or such other Faculty Officer to whom the responsibility has been delegated

“Head of School” means the “Head of School or director of research institute or such other member of school or institute to whom the responsibility has been delegated”.

“PhD” means “Doctor of Philosophy in Creative Writing”

“MPhil” means “Master of Philosophy”

“Degree” means “PhD in Creative Writing”

“portfolio” means “body of work submitted for the Degree of PhD in Creative Writing”

##### **II Admission**

1. The Senatus Academicus may admit as candidates for the Degree persons who have been admitted as research students of the University and who have been recommended to register as PhD students by the Dean of Faculty. In exceptional circumstances the Senatus Academicus may admit as a candidate for the degree a student who can satisfy the Dean of Faculty that (s)he already has adequate qualifications and for whom a supervisor can be appointed.
2. A PhD student shall matriculate and pay the appropriate fee each year.

### **III Full-time and Part-time Study**

1. Candidates in full-time employment may not register as full-time students except with the written permission of their employer. Members of staff of the University may be permitted to register full-time if:
  - A. where they are funded from external sources, these bodies have given their permission;
  - B. the work on which they are engaged as full-time employees of the University is of sufficient scope and originality as to be appropriate for study as part of a higher degree;
  - C. the level and character of supervision offered to the member of staff is in no way incompatible with that normally associated with study for a higher degree.

Where full-time registration by a member of staff is approved the appropriate full-time fee will be payable. Notwithstanding, members of staff in either full-time or part-time employment may choose to study part-time. Other applicants, who are not members of staff, may study part-time if they can satisfy the Senatus Academicus that inadequate time is available for full-time study.

2. An applicant for admission as a part-time candidate for the degree must either:
  - A. be a graduate of the University; or
  - B. be normally resident within St Andrews or its immediate vicinity.

### **IV Duration and Place of Study**

1. Every candidate for the Degree shall pursue a course of special study in the University of St Andrews during a period of three years or its equivalent for part-time students.
2. The Senatus Academicus shall have the power to permit candidates on the recommendation of the Dean of Faculty to pursue elsewhere their special study during the whole or part of the period, provided that the Senatus is satisfied that the necessary facilities exist for the pursuit of the special study and that it is being done under adequate supervision.
3. Work done during any academic year may be reckoned as having been pursued over twelve months for a full-time student and over six months for a part-time student, unless otherwise agreed by the Dean of Faculty on the recommendation of the supervisor.
4. Work done during a summer vacation may be reckoned as having been carried out during three months (six weeks for part-time students) provided that the supervisor certifies it as being equivalent to three months of full-time study (or six weeks of full-time study for part-time students).
5. The submitted work shall be normally presented after 3 years and after no more than 4 years of study as a matriculated student or the equivalent for part-time students. Exceptionally the submitted work may be presented after 2 years of study as a matriculated student, or the equivalent for part-time students.

### **V Nature of Study**

1. The Degree is granted only for the submission of a body of work judged by the examiners to be of publishable standard, in whole or in large part, which demonstrates inventiveness in the generation of new ideas and images where these lead to new or enhanced insights.
2. All students and supervisors are required to conduct their work and supervision in accordance with the requirements of the University's Policy for Supervisors and Students in Research Postgraduate Programmes.
3. The work of all students will be reviewed annually and the results reported to the Dean of Faculty. The first annual review, which will be conducted by the Head of School and which will normally occur at the end of the first year of study will recommend either continuance of registration as a PhD student or transfer of registration to that of an MPhil student. The second annual review will take place by the end of the second year of study. An important part of this review is to produce an agreed timetable for completion and submission of the body of work.

## **V1 Methods of Presentation**

1. Candidates for the Degree will be examined on the basis of (A) a portfolio of original work and (B) an accompanying research paper.

The submission will take the form of:

- A. a work of creative prose of no more than 40,000 words OR a collection, or part thereof, of poetry comprising 30-40 pages.
- B. a research paper (or discursive commentary or introductory essay) of no more than 40,000 words which shall link the portfolio of original work submitted under A to the larger history or theory or practice of relevant writing.

Both the quality of work submitted under A and B and the relationship between the work submitted under A and B will be relevant factors in deciding the success of the submission for the degree.

2. The work shall be written in English.
3. Three complete copies of the submission shall be submitted in typescript and in secure but temporary binding. There shall be an adequate margin on each page. After the examination has been completed, two copies shall be bound in an approved style at the candidate's expense and shall be deposited in the University Library. The third copy of the submission shall be returned to the candidate.
4. An abstract (not exceeding 300 words in length) of the submission shall be submitted for the approval of the examiners. The abstract shall be bound in with the thesis.
5. The submitted work shall be prefaced by:
  - A. a declaration that the work has been composed by the candidate, and that it has not been accepted in any previous application for any degree;
  - B. a statement of the date of the candidate's admission as a research student;
  - C. a statement by the supervisor that the Regulations have been fulfilled; and
  - D. a statement of access to or embargo of the print and / or electronic copy of the thesis.

## **VII Portfolio of Published Work**

1. Academic staff of at least three years' standing or matriculated students may apply to the Dean for permission to submit a portfolio of already published work, such as novels, collections of short stories or poems. The Faculty shall seek the comments of the School of English on the acceptability of the submission and, in the case of a submission by a matriculated student, comments from the student's supervisor.
2. Any publications submitted must already be in the public domain.
3. The application shall be accompanied by the following documents:
  - A. Details of the published work included in the portfolio
  - B. Approval from the holder(s) of copyright if required
4. The standard of the submitted portfolio shall be equivalent to that expected of a diligent student after a period of three years of full-time study and may comprise:
  - A. a novel or collection of stories or other prose work between 60,000 and 80,000 words long, accompanied by an introduction, writer's journal, or other introductory and contextual material of between 8,000 and 10,000 words in length, or
  - B. a collection of original poetry of not less than 50 pages in length, accompanied by an introduction, writer's journal, or other introductory or contextual material of at least 10,000 words and not more than 20,000 words in length.
5. Upon permission to submit being granted the candidate shall submit three copies of the portfolio.
6. The portfolio shall be accompanied by a declaration that none of the work submitted has been submitted by the candidate for a higher degree at any other university.



## VIII Examination

1. The Senatus Academicus shall appoint a committee to examine the portfolio and report on it to the Senatus Academicus. The committee shall normally consist of two examiners, one of whom shall be an external examiner. An internal examiner shall be appointed, who (for administrative purposes) shall act as convener of the committee.
2. Where the candidate is an employee of the University, the examining committee shall consist of an internal examiner who shall act as convener and two external examiners.
3. The examiners appointed by the Senatus Academicus shall submit independent written reports without consultation on the portfolio. These independent reports must be completed and returned to the Registry before any oral examination of the candidate takes place. In addition the supervisor shall submit a written report to the examining committee detailing any special circumstance that may have affected the candidate's performance but making no comment relating to the quality of the work.
4. The committee shall require the candidate to submit to an oral examination. In exceptional circumstances and only with the express approval of the Dean the requirement of an oral examination may be waived.
5. The examining committee shall bear in mind that their judgement of the quality of an unpublished portfolio of work should take into account what may be reasonably expected of a capable and diligent student after three years of full-time study.
6. The examination of the portfolio by the committee should normally be completed within three months of the date of submission. If the examining committee is unable to convene within three months then the Dean of Faculty shall be empowered to authorise a short extension of the examining period or to advise the Senatus Academicus that a new committee should be appointed.
7. No candidate may submit a portfolio until the appropriate fee requirement has been met. Candidates submitting a portfolio of already published work will be required to pay an examination fee before the examination takes place.
8. The examining committee shall make one of the following recommendations to the Senatus Academicus:-
  - i. that the thesis be approved and the degree of PhD in Creative Writing be awarded without corrections; or
  - ii. that the thesis be approved and the degree of PhD in Creative Writing be awarded, subject to the making of any purely typographical corrections and revisions; or
  - iii. that the thesis be not accepted in its present form but that the candidate be given the opportunity to make minor corrections within a period of three months of the date of the examination and that, upon the convener of the committee being satisfied that these minor corrections have been effected, the thesis be approved and the degree of PhD in Creative Writing be awarded; or
  - iv. that the thesis be not accepted in its present form but that the candidate be given the opportunity to revise the thesis or portfolio and resubmit it within twelve months from the date of intimation to the candidate of the decision of the Examining Committee—this recommendation meaning that the candidate must resubmit a corrected thesis, pay a re-examination fee, and be re-examined, though the examiners have the right to waive a further oral examination; or
  - v. that the thesis not being of sufficient merit, the candidate may resubmit the thesis within twelve months for a further examination for the award of PhD in Creative Writing - this recommendation meaning that the candidate must resubmit a corrected thesis, pay a re-examination fee, and be re-examined, with a further oral examination; or
  - vi. that the thesis not being of sufficient merit, the candidate may resubmit the thesis within twelve months for a further examination for the award of MPhil. - this recommendation

meaning that the candidate must resubmit a corrected thesis under the regulations for the degree of MPhil., pay a re-examination fee, and be re-examined, though the examiners have the right to waive a further oral examination; this recommendation may be offered to the candidate at the same time as recommendation v. as an alternative option, but may not be the only recommendation at the first presentation of the thesis; or

vii. that the thesis be rejected and no award made. This may not be the recommendation at the first presentation of the thesis.

## **IX Resubmission**

1. If a recommendation to the Senatus Academicus is made for resubmission by an examining committee the candidate shall receive in writing from the convener of the committee a detailed list of corrections and revisions deemed to be necessary by the examiners. The candidate shall be expected to take these into account in any resubmission.
2. On resubmission and payment of the appropriate fee the examining committee shall be reconvened and a further examination be conducted. The convener of the committee may recommend to the Dean of Faculty that the requirement of an oral examination be waived, if that is the unanimous opinion of the examining committee.
3. In the event of an oral examination being required, the Dean of Faculty shall recommend the appointment of an appropriate neutral third party observer.
4. If the original examining committee cannot be reconvened then the Senatus Academicus shall have the power to appoint a new committee to examine the portfolio.
5. The examining committee shall make one of the following recommendations to the Senatus Academicus:-
  - A. that the portfolio be approved and the degree of PhD in Creative Writing be awarded; or
  - B. that, the portfolio being of sufficient merit, the candidate be awarded the degree of MPhil; or
  - C. that the portfolio be rejected.

## **F. DEGREE OF DOCTOR OF ENGINEERING (EngD)**

### **I Interpretation**

1. In these Regulations, the following expressions shall have the meanings hereby assigned to them:

"Dean of Science" means the "Dean of Science or such other Faculty Officer to whom the responsibility has been delegated

"Head of School" means the "Head of School or director of research institute or such other member of school or institute to whom the responsibility has been delegated".

"EngD" means "Doctor of Engineering". "MEng" means "Master of Engineering".

"Engineering Doctorate Scheme" is the co-operative scheme recognised by the Engineering and Physical Sciences Research Council (EPSRC) for the training of research investigators to doctorate level involving the University of St Andrews and other UK universities in partnership with each other and with industrial organisations.

### **II Admission**

1. The Senatus Academicus may admit as candidates for the Degree of EngD persons who have been admitted as research students of the University and who have been recommended to register as EngD students by the Dean.
2. An EngD student shall matriculate and pay the appropriate fee each year.
3. An EngD student must be a full time student.
4. The Head of School shall appoint for each candidate an academic supervisor and an industrial supervisor who shall jointly oversee the development of the candidate and shall supply support and advice regarding the project(s) on which the student is working. The industrial supervisor

shall be a member of staff of the industrial organisation which is participating in the Engineering Doctorate Scheme and which is sponsoring the student.

### **III Duration and Place of Study**

1. Every candidate for the Degree of EngD shall pursue a course of special study and research normally lasting four years.
2. The course of study and research shall comprise
  - A. assessed coursework and attendance at lectures and colloquia in the University of St Andrews or in other universities participating in the Engineering Doctorate Scheme, amounting to approximately 25% of the time spent during the degree course;
  - B. supervised research work comprising approximately 75% of the time spent during the degree course, and culminating in the submission of a thesis or a research portfolio. This work shall be carried out in the University of St Andrews or at the premises of the industrial organisation which is participating in the Engineering Doctorate scheme and which is sponsoring the student, in variable proportions according to the nature of the research.
3. All research students and supervisors are required to conduct their research and supervision in accordance with the requirements of the University's Policy for the Supervision of Research Students.
4. The work of all EngD students will be reviewed annually prior to the submission of the thesis or portfolio and the results reported to the Dean of Science. The first annual review, which will be conducted by the Head of School and which will normally occur at the end of the first year of study, will recommend either continuance of registration as an EngD student or transfer of registration to that of an MEng student.

### **IV Thesis or portfolio**

1. Every candidate for the Degree of EngD shall present a thesis or portfolio of published work embodying the results of his or her special study or research.
2. A thesis should take the form of a specially composed monograph. A portfolio of published work should take the form of documents such as published papers, patents etc together with an abstract in English which describes the contribution to knowledge and innovation demonstrated by the candidate.
3. The submission of a thesis shall follow the same rules and procedures as for the submission of a thesis for a PhD. The submission of a portfolio of published work shall follow the same rules and procedures as laid down for the submission of a portfolio of published work for a PhD with the exception that only registered EngD students are eligible.
4. The thesis or portfolio shall normally be presented after 4 years and no later than 5 years since first matriculation. Exceptionally the thesis or portfolio may be presented after 3 years since first matriculation.

### **V The Examination**

1. The examination of the thesis or portfolio of published work shall follow the same rules and procedures as laid down for a PhD.
2. The examining committee shall make one of the following recommendations to the Senatus Academicus:
  - A. that the thesis or portfolio be approved and the degree of EngD be awarded subject to making any purely typographical corrections and revisions; or
  - B. that the thesis or portfolio be not accepted in its present form but that the candidate be given the opportunity to make minor corrections to the thesis or portfolio within a period of three months of the date of the examination and that, upon the convener of the committee being satisfied that these minor corrections have been effected, the thesis or portfolio be approved and the degree of EngD be awarded; or

- C. that the thesis or portfolio be not accepted in its present form but that the candidate be given the opportunity to revise the thesis or portfolio and resubmit it within twelve months from the date of intimation to the candidate of the decision of Senatus; or
- D. that the thesis or portfolio being of sufficient merit, the candidate be awarded the degree of MEng; or
- E. that the thesis or portfolio be rejected.

## **VI Resubmission**

1. The resubmission of the thesis or portfolio of published work shall follow the same procedures as in the PhD regulations.
2. The examining committee shall make one of the following recommendations to the Senatus Academicus:
  - A. that the thesis or portfolio be approved and the degree of EngD be awarded; or
  - B. that, the thesis or portfolio being of sufficient merit, the candidate be awarded the degree of MEng.; or
  - C. that the thesis or portfolio be rejected.

## **G. DEGREE OF DOCTOR OF MEDICINE (MD)**

### **I Interpretation**

In these Regulations, the following expressions shall have the meanings hereby assigned to them:-

“LTC” means the “Learning & Teaching Committee or the standing Committee to which it may delegate the responsibility”;

“Dean of Faculty” means the “Dean of the relevant Faculty or such other Faculty Officer to whom the responsibility has been delegated”

“Head of School” means the “Head of School or director of research institute or such other member of school or institute to whom the responsibility has been delegated”.

“MD” means “Doctor of Medicine”. “MPhil”. means “Master of Philosophy”

### **II Admission**

1. The Senatus Academicus may admit as candidates for the degree of MD persons who have been admitted as research students of the University and who have been recommended to register as MD students by the Dean of Faculty. In exceptional circumstances the Senatus Academicus may admit as a candidate for the degree of MD a student who can satisfy the Dean of Faculty that (s)he already has adequate qualifications and for whom a supervisor can be appointed.
2. A MD student shall matriculate on payment of the appropriate fee each year.

### **III Full-time and Part-time Study**

1. Candidates in full-time employment may not register as full-time students except with the written permission of their employer. Members of staff of the University may be permitted to register full-time if:-
  - A. where they are funded from external sources, these bodies have given their permission;
  - B. the work on which they are engaged as full-time employees of the University is of sufficient scope and originality as to be appropriate for study as part of a higher degree;
  - C. the level and character of supervision offered to the member of staff is in no way incompatible with that normally associated with study for a higher degree.
2. Where full-time registration by a member of staff is approved, the appropriate full-time fee will be payable. Notwithstanding, members of staff in either full-time or part-time employment may choose to study part-time. Other applicants, who are not members of staff, may study part-time if they can satisfy the Senatus Academicus that inadequate time is available to full-time study.

3. An applicant for admission as a part-time candidate for the degree must either:
  - A. be a graduate of the University; or
  - B. be normally resident within St Andrews or its immediate vicinity

#### **IV Duration and Place of Study**

1. Every candidate for the Degree of MD, except under 2 below, shall pursue a course of special study or research in the University of St Andrews during a period of two years or its equivalent for part-time students.
2. The Senatus Academicus shall have the power to permit candidates on the recommendation of the Dean to pursue elsewhere their special study and research during the whole or part of the period, provided that the Senatus is satisfied that the necessary facilities exist for the pursuit of the special study or research and that it is being done under adequate supervision.
3. Work done during any academic year may be reckoned as having been pursued over twelve months for a full-time student and over six months for a part-time student, unless otherwise agreed by the Dean of Faculty on the recommendation of the supervisor.
4. Work done during a summer vacation may be reckoned as having been carried out during three months (six weeks for part-time students) provided that the supervisor certifies it as being equivalent to three months of full-time study (or six weeks of full-time study for part-time students).
5. The thesis shall be normally presented after 2 years and after no more than 4 years of study as a matriculated student, or the equivalent for part-time students. The thesis will not be accepted less than 2 years after matriculation.

#### **V Nature of Study**

1. The degree of M.D is granted only for original research or higher study, the result of which is presented in a specially composed thesis. The original research or higher study must be carried out on a topic approved by the Head of School who shall appoint a supervisor. The thesis or portfolio shall constitute a significant and original contribution to knowledge or understanding consistent with what may reasonably be expected of a diligent student after two years of full-time study. It should be clearly written, well argued and should indicate a satisfactory knowledge of the field of study. It should contain material worthy of publication in some form.
2. All research students and supervisors are required to conduct their research and supervision in accordance with the requirements of the University's Policies for Supervisors and Students in Taught and Research Postgraduate Programmes.
3. The work of all MD students will be reviewed annually prior to the submission of the thesis and the results reported to the Dean of Faculty. The first annual review, which will be conducted by the Head of School, and which will normally occur at the end of the first year of study after registration as a general research student, will determine continuance of registration as a MD student. An important part of this review is to produce an agreed timetable for submission of the thesis.

#### **VI Methods for Presentation**

1. Candidates for the degree of MD will be expected to submit a thesis embodying the results of his or her special study or research.

#### **VII Thesis**

1. The thesis shall be written in English and should take the form of a specially composed monograph. In exceptional circumstances the Dean may give permission for another language to be used.
2. The normal maximum length of the thesis will be 50,000 words excluding bibliography,
3. Three complete copies of the thesis shall be submitted in typescript and in secure but temporary binding. There shall be an adequate margin on each page. After the examination

has been completed, two copies shall be bound in an approved style at the candidate's expense and shall be deposited in the University Library. The third copy of the thesis shall be returned to the candidate.

4. In exceptional circumstances the Dean may give permission for the thesis to be presented in a different medium.
5. An abstract (not exceeding 300 words in length) of the thesis shall be submitted for the approval of the examiners. In the case of a thesis written in a foreign language there shall be a summary in English of between 1,000 and 3,000 words, in addition to an abstract in English. The abstract (and where appropriate, the summary) shall be bound in with the thesis.
6. The thesis shall be prefaced by:-
  - A. a declaration that the thesis has been composed by the candidate, that the work of which it is a record has been done by that candidate, and that has not been accepted in any previous application for any degree.
  - B. a statement of the date of the candidate's admission as a research student:
  - C. a statement by the supervisor that the Regulations have been fulfilled; and
  - D. a statement that either access to the thesis in the University Library shall be unrestricted or that with the approval of the Dean access shall be restricted under stated conditions for a period up to a maximum of five years.

### **VIII Examination of Candidates Presenting by Thesis**

1. The Senatus Academicus shall appoint a committee to examine the thesis and report on it to the Senatus Academicus. The committee shall normally consist of two examiners, one of whom shall be an external examiner. An internal examiner shall be appointed, who (for administrative purposes) shall act as convener of the committee.
2. In the case of an employee of the University, the examining committee shall consist of an internal examiner who shall act as convener and two external examiners.
3. The examiners appointed by the Senatus Academicus shall submit independent written reports without consultation on the thesis. These independent reports must be completed and a copy returned to Registry before any oral examination of the candidate takes place. In addition the supervisor of the thesis shall submit a written report to the examining committee detailing any special circumstance that may have affected the candidate's performance but making no comment relating to the quality of the work.
4. The committee shall require the candidate to submit to an oral examination. In exceptional circumstances and only with the express approval of the Dean, the requirement of an oral examination may be waived.
5. The examining committee shall bear in mind that their judgement of the substantial significance of the thesis should take into account what may be reasonably expected of a capable and diligent student after two years of full-time study.
6. The examination of the thesis by the committee should normally be completed within three months. If the examining committee is unable to convene within three months then the Dean of Faculty shall be empowered to authorize a short extension of the examining period or to advise the Senatus Academicus that a new committee should be appointed.
7. No candidate may submit a thesis until the appropriate fee requirement has been met.
8. The examining committee shall make one of the following recommendations to the Senatus Academicus:-
  - A. that the thesis be approved and the degree of MD be awarded subject to making any purely typographical corrections and revisions; or
  - B. that the thesis be not accepted in its present form but that the candidate be given the opportunity to make minor corrections to the thesis within a period of three months of the date of the examination and that, upon the convener of the committee being satisfied that these minor corrections have been effected, the thesis be approved and the degree of MD be

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awarded; or

- C. that the thesis be not accepted in its present form but that the candidate be given the opportunity to revise the thesis and resubmit it within twelve months from the date of intimation to the candidate of the decision of Senatus; or
- D. that the thesis being of sufficient merit, the candidate be awarded the degree of MPhil; or
- E. that the thesis be rejected.

## **G. DEGREE OF DOCTOR OF MEDICINE (MD)**

There are two routes to the MD, one by submission of evidence as set out below and one by research as set out in section G. Both are research degrees and neither are qualifications for clinical practice.

### **I Interpretation**

1. In these regulations:-

the following expressions shall have the meanings hereby assigned to them:

“Court means the “University Court of the University of St Andrews”

“Degree of Doctor of Medicine” means the “Degree of Doctor of Medicine in the University of St Andrews”

### **II Qualifications for the Degree**

1. The Senatus Academicus may admit as a candidate for the Degree of Doctor of Medicine
  - i. any graduate of the University of St Andrews who holds a qualifying degree in Medicine of at least ten years standing
  - ii. any member of academic staff of at least three years standing and who holds a qualifying degree in Medicine
2. Application for admission for the Degree of Doctor of Medicine by submission of evidence must be made in writing to the Senatus Academicus.

### **III Presentation of Material and Declaration by candidates**

1. Each candidate for the Degree of Doctor of Medicine (by the submission route) shall present as evidence of fitness to receive the degree a specially composed thesis, or a published work, or a series of published papers, or any combination of these. The material so presented in evidence may either be entirely that of the candidate or carried out in collaboration with another person or persons, provided that, in the latter case, the contribution of the candidate can be clearly defined. The standard of work required for the Degree of Doctor of Medicine is a high one. The subject matter must be coherent and original and should form a contribution to the advancement of scientific knowledge of such substance and distinction as to give the candidate an authoritative status in some branch or branches of learning.
2. Such evidence as is presented in terms of Sub-Section (1) of this Section shall be accompanied by the appropriate fee and a declaration signed by the candidate certifying either:
  - i. that the candidate is the sole author of the work, or
  - ii. that the candidate is the joint author of the work in collaboration with another person or persons who shall be named, in which case the declaration must also include a statement clearly defining the extent of the candidate’s personal contribution to the joint work.

In each case, such declaration must also state the extent (if any) to which the work has been submitted in any previous application for any degree and the result of any such application. Work submitted in a successful application for any degree shall be disallowed. The Senatus Academicus shall have discretion to allow or disallow work submitted in an unsuccessful application.

3.
  - i. if after inquiry the Senatus Academicus is not satisfied with the declaration provided for in Sub-Section (2) of this Section, the Senatus shall have power to refuse the application.
  - ii. if after inquiry the Senatus Academicus is satisfied with the said declaration it shall remit the work submitted to a Committee of Examiners as provided in Section IV hereof.
4. Three complete copies of the thesis or published work or of the series of published papers or any combination of these must be submitted. The Library shall have power to decide when and under what conditions these copies shall be available for consultation or borrowing but the copyright shall belong to the candidate.

#### **IV Committee of Examiners and Award of the Degree**

1. For the purpose of examining the work submitted by a candidate, the Senatus Academicus shall appoint a Committee consisting of two or more members of the teaching staff of the University of St Andrews, one of whom shall be from among the professorial staff, and two or more additional examiners from outside the University of St Andrews. If, following a report from the Committee of Examiners, the Senatus is of the opinion that the work submitted constitutes an original and sufficiently substantial contribution to medical knowledge by the candidate, the candidate shall be awarded the degree.
2. The award of distinction may be awarded if independently recommended by all the External Examiners. In exceptional circumstances an oral may be conducted to determine whether or not to award a distinction.

#### **V General**

1. From the date on which these Regulations receive the approval of the Court all previous Regulations for the Degree of Doctor of Medicine shall cease to have effect.

### **H. DEGREE OF DOCTOR OF SCIENCE (DSc)**

#### **I Interpretation**

1. In these Regulations:

the following expressions shall have the meanings hereby assigned to them:

"Court" means the "University Court of the University of St Andrews";

"Degree of Doctor of Science" means the "Degree of Doctor of Science in the University of St Andrews".

#### **II Qualifications for the Degree**

1. A. The Senatus Academicus may admit as a candidate for the Degree of Doctor of Science either:—
  - i. any graduates of the University of St Andrews provided that not less than seven years have elapsed from the date of their first graduation in the University, or
  - ii. any professor or reader or lecturer in the University or holder of any such post or appointment in the University as the Senatus Academicus may approve, provided that not less than four years have elapsed from the date of appointment.
- B. Applications for admission as a candidate for the Degree of Doctor of Science must be made in writing to the Senatus Academicus.

#### **III Presentation of Material and Declaration by Candidates**

1. A. Each candidate for the Degree of Doctor of Science shall present as evidence of fitness to receive the degree a specially composed thesis, or a published work, or a series of published papers, or any combination of these. The material so presented in evidence may either be entirely that of the candidate or carried out in collaboration with another person or persons, provided that, in the latter case, the contribution of the candidate can be clearly defined. The standard of work required for the Degree of Doctor of Science is a high one. The subject matter must be coherent and original and should form a contribution to the advancement of

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scientific knowledge of such substance and distinction as to give the candidate an authoritative status in some branch or branches of learning.

- B. Such evidence as is presented in terms of Sub-Section (A) of this Section shall be accompanied by a declaration signed by the candidate certifying either:
- i. that the candidate is the sole author of the work, or
  - ii. that the candidate is the joint author of the work in collaboration with another person or persons who shall be named, in which case the declaration must also include a statement clearly defining the extent of the candidate's personal contribution to the joint work.

In each case, such declaration must also state the extent (if any) to which the work has been submitted in any previous application for any degree and the result of any such application. Work submitted in a successful application for any degree shall be disallowed. The Senatus Academicus shall have discretion to allow or disallow work submitted in an unsuccessful application.

- C. i. If after inquiry the Senatus Academicus is not satisfied with the declaration provided for in Sub-Section (B) of this Section, the Senatus shall have power to refuse the application.
- ii. If after inquiry the Senatus Academicus is satisfied with the said declaration it shall remit the work submitted to a Committee of Examiners as provided in Section 4 hereof.
- D. Three complete copies of the thesis or published work or of the series of published papers or any combination of these must be submitted. The Library Committee shall have power to decide when and under what conditions these copies shall be available for consultation or borrowing but the copyright shall belong to the candidate.

#### **IV Committee of Examiners and Award of the Degree**

1. For the purpose of examining the work submitted by a candidate, the Senatus Academicus shall appoint a Committee consisting of two or more members of the teaching staff of the University of St Andrews, one of whom shall be from among the professorial staff, and two or more additional examiners from outside the University of St Andrews. If, following a report from the Committee of Examiners, the Senatus is of the opinion that the work submitted constitutes an original and sufficiently substantial contribution to scientific knowledge by the candidate, the candidate shall be awarded the degree.

#### **V General**

1. From the date on which these Regulations receive the approval of the Court all previous Regulations for the Degree of Doctor of Science shall cease to have effect.

#### **I. DEGREE OF DOCTOR OF LETTERS (DLitt)**

1. Three complete copies of the material presented in evidence must be submitted; such material must have been in print for a period of at least one year at the date of submission.
2. Candidates should not submit material which in substance has been submitted in a successful application for a higher degree unless they consider that its omission would result in an inadequate representation of their research.
3. Two copies of all successful submissions will remain the property of the University and may, at the discretion of the University, be retained. Material submitted by unsuccessful candidates will be returned.
4. The degree shall be awarded only if the Senatus Academicus, on the recommendation of the examiners, is satisfied that the submission represents both an original and a substantial contribution to advancement of knowledge of the subject and that it constitutes work of high distinction in scholarship and/or research in respect of qualities such as erudition, insight,

imagination, innovation and critical balance, such that it has established or confirmed the candidate as a recognised authority in the relevant field.

#### **J. AUDITING MODULES**

Students may request permission to “audit” a module as an appropriate way of gaining additional knowledge or skills. Permission must be sought from the relevant Head of School who will determine whether and to what extent the student may attend of lectures, seminars and/or practical sessions. Students will not receive a grade or any credit for the module and will not necessarily receive resources for the module or access to School facilities.

## Postgraduate Taught Courses - 2015/6 - November 2015

### School of Art History

Postgraduate Diploma  
(*this is also the Taught element of the MLitt and MPhil programme*):

Museum and Gallery Studies  
Museum and Gallery Studies, part-time

MLitt:

Art History  
History of Photography (*not available 2015-2016*)  
Museum and Gallery Studies  
Museum and Gallery Studies, part-time

MPhil:

Art History  
History of Photography  
Museum and Gallery Studies  
National Trust for Scotland Studies

### School of Biology

Postgraduate Certificate:

Sustainable Aquaculture (Vertebrates)  
Sustainable Aquaculture (Invertebrates)

Postgraduate Diploma:

Sustainable Aquaculture

MSc:

Ecosystem-Based Management of Marine Systems  
Marine Mammal Science  
Sustainable Aquaculture

### School of Chemistry

MSc:

Chemical Science

MPhil:

Chemistry

### School of Classics

Postgraduate Diploma:  
(*this is also the Taught element of the MLitt and MPhil programmes*):

Ancient History  
Classical Studies  
Greek  
Greek and Latin  
Latin

MLitt:

Ancient History  
Classical Studies  
Greek  
Greek and Latin  
Latin

MPhil:

Ancient History  
Classical Studies  
Greek  
Greek and Latin  
Latin

## Postgraduate Taught Courses - 2015/6 - November 2015

### School of Computer Science

MSc: Advanced Computer Science  
Artificial Intelligence  
Computing and Information Technology  
Human Computer Interaction  
Information Technology  
Management and Information Technology (*see section 15*)  
Networks and Distributed Systems  
Software Engineering

Erasmus Mundus MSc: Dependable Software Systems

### School of Divinity

Postgraduate Diploma: Bible and Contemporary World (local and distance learning mode)

MLitt: Bible and Contemporary World (local and distance learning mode)  
Biblical Languages and Literature  
Scripture and Theology  
Systematic and Historical Theology  
Theology, Imagination and the Arts

### School of Economics & Finance

MLitt: Environmental History (*see section 15*)

MPhil: Environmental History (*see section 15*)

MSc: Economics  
Finance  
Money, Banking and Finance

### School of English

MLitt: Creative Writing  
Mediaeval English  
Mediaeval Studies (*see section 15*)  
Modern and Contemporary Literature and Culture  
Romantic/Victorian Studies (*not available 2015-2016*)  
Shakespeare and Renaissance Literary Culture  
Women, Writing and Gender

MPhil: English Studies  
Mediaeval English  
Mediaeval Studies (*see section 15*)  
Modern and Contemporary Literature and Culture  
Romantic/Victorian Studies (*not available 2015-2016*)  
Shakespeare and Renaissance Literary Culture  
Women, Writing and Gender

MFA: Creative Writing

### Department of Film Studies

MLitt: Film Studies

## Postgraduate Taught Courses - 2015/6 - November 2015

### Department of Geography & Sustainable Development

|                           |   |
|---------------------------|---|
| Postgraduate Certificate: | Sustainable Development                       |
| Postgraduate Diploma:     | Sustainable Development                       |
| MSc:                      | Sustainable Development<br>Sustainable Energy |
| MRes:                     | Human Geography<br>Sustainable Energy         |

### School of History

|        |  |
|--------|--|
| MLitt: | The Book. History and Techniques of Analysis<br>Central and East European Studies ( <i>see section 15</i> )<br>Early Modern History<br>Environmental History ( <i>see section 15</i> )<br>Intellectual History ( <i>see section 15</i> )<br>Iranian Studies<br>Mediaeval History<br>Mediaeval Studies ( <i>see section 15</i> )<br>Middle Eastern History<br>Modern History<br>Reformation Studies<br>Scottish Historical Studies<br>Transnational, Global and Spatial History |
| MPhil: | The Book. History and Techniques of Analysis<br>Central and East European Studies ( <i>see section 15</i> )<br>Early Modern History<br>Environmental History ( <i>see section 15</i> )<br>Intellectual History ( <i>see section 15</i> )<br>Iranian Studies<br>Mediaeval History<br>Mediaeval Studies ( <i>see section 15</i> )<br>Middle Eastern History<br>Modern History<br>Reformation Studies<br>Scottish Historical Studies<br>Transnational, Global and Spatial History |

### Interdisciplinary Degrees

|        |   |
|--------|---|
| MLitt: | Central and East European Studies<br>Environmental History<br>Intellectual History<br>Mediaeval Studies |
| MSc:   | Global Health Implementation<br>Health Psychology<br>Management and Information Technology              |

## Postgraduate Taught Courses - 2015/6 - November 2015

### School of International Relations

Postgraduate Diploma:

*(this is also the Taught element of the MLitt programmes):*

Terrorism and Political Violence (full time mode)  
Terrorism and Political Violence (distance learning mode)

MLitt:

International Political Theory  
International Security Studies  
Middle Eastern and Central Asian Security Studies  
Peace and Conflict Studies  
Terrorism and Political Violence (full time mode)  
Terrorism and Political Violence (distance learning mode)

MPhil:

International Political Theory  
International Security Studies  
Middle Eastern and Central Asian Security Studies  
Peace and Conflict Studies

MRes:

International Relations *(not available 2015-2016)*

### School of Management

MLitt:

Human Resource Management  
International Business  
International Business and Strategy *(not available 2015-2016)*  
Management  
Marketing

MSc:

Banking and Finance  
Finance and Management  
Management and Information Technology *(see section 15)*

MRes:

Management Studies *(not available 2015-2016)*

### School of Mathematics & Statistics

MSc:

Applied Statistics and Datamining  
Mathematics  
Statistics

### School of Medicine

MSc:

Global Health Implementation *(see section 15)*  
Health Psychology *(see section 15)*

## Postgraduate Taught Courses - 2015/6 - November 2015

### School of Modern Languages

|                            |  |
|----------------------------|--|
| MLitt:                     | Central and Eastern European Studies ( <i>see section 15</i> )<br>Comparative Literature<br>Cultural Identity Studies<br>French Studies<br>German Studies<br>Italian Studies<br>Mediaeval Studies ( <i>see section 15</i> )<br>Middle Eastern Literary and Cultural Studies<br>Russian Studies<br>Spanish and Latin American Studies       |
| MLitt Mundus Masters (EU): | Crossways in Cultural Narratives   |
| MLitt/MA:                  | German and Comparative Literature  |
| MPhil:                     | Arabic<br>Central and Eastern European Studies ( <i>see section 15</i> )<br>Comparative Literature<br>Cultural Identity Studies<br>French<br>German<br>Hispanic Studies<br>Italian<br>Mediaeval Studies ( <i>see section 15</i> )<br>Middle Eastern Literary and Cultural Studies<br>Russian Studies<br>Spanish and Latin American Studies |

### Department of Philosophy

|                                |  |
|--------------------------------|--|
| Graduate Diploma (Conversion): | Philosophy   |
| MLitt:                         | Epistemology, Mind and Language<br>History of Philosophy<br>Logic and Metaphysics<br>Moral, Political and Legal Philosophy<br>Philosophy |
| MPhil:                         | Philosophy   |

### School of Physics & Astronomy

|       |   |
|-------|---|
| MSc:  | Photonics and Optoelectronic Devices<br>Physics |
| EngD: | Photonics                                       |

## Postgraduate Taught Courses - 2015/6 - November 2015

### School of Psychology & Neuroscience

Postgraduate Certificate: Adults with Learning Disabilities who have Significant and Complex Needs  
Adult Support, Protection and Safeguarding  
The Psychology of Dementia Care

Postgraduate Diploma: Adults with Learning Disabilities who have Significant and Complex Needs

MSc: Adults with Learning Disabilities who have Significant and Complex Needs  
Evolutionary and Comparative Psychology: The Origins of Mind  
Health Psychology (*see section 15*)  
Psychology (Conversion)

MRes: Psychology

### Department of Social Anthropology

MRes: Anthropology, Art and Perception  
Social Anthropology  
Social Anthropology and Amerindian Studies  
Social Anthropology with Pacific Studies

MPhil: Social Anthropology  
Social Anthropology and Amerindian Studies



## School of Art History

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **Postgraduate Diploma:**

*(this is also the Taught element of the MLitt and MPhil programme):*

**Museum and Gallery Studies** ([link](#))

**Museum and Gallery Studies, part-time** ([link](#))

#### **MLitt:**

**Art History** ([link](#))

**History of Photography** (*not available 2015-2016*)

**Museum and Gallery Studies** ([link](#))

**Museum and Gallery Studies, part-time** ([link](#))

#### **MPhil:**

**Art History** ([link](#))

**History of Photography** (*not available 2015-2016*)

**Museum and Gallery Studies** ([link](#))

**National Trust for Scotland Studies** (*See Museum and Gallery Studies*)  
([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Art History

**Taught Element:**

120 credits: AH5076 - AH5200

**MLitt:**

120 credits from the Taught Element plus AH5099

**MPhil:**

120 credits from the Taught Element plus a thesis of not more than 40,000 words

### Compulsory module – for the MLitt:

| AH5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                        |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all MLitt Postgraduate Programmes within the School. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.                      |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr L Goddard  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |            |

OR

| AH5200 Ecole du Louvre Summer Study  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  |   |               |                  |        |
| <p>This is a 5000-level module, to be taken during the Summer term. It replaces AH5099 for those students in the History of Art, History of Photography, or Museum &amp; Gallery Studies MLitt programme who have been selected for the Erasmus exchange program with the Ecole du Louvre. With this module, students will write an assessed assignment based on their experience in Paris during their summer programme, and write a correspondingly shorter dissertation than is required by AH5099. At the Ecole du Louvre, they will write a journal of 4,000 words about French museology. They would then return to St Andrews to finish their dissertation of 11,000 words.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | It replaces AH5099 for those students in the History of Art, History of Photography and Museum & Gallery Studies MLitt programmes who have been selected for the Erasmus exchange program with the Ecole du Louvre. |               |                  |        |
| <b>Pre-requisite(s):</b>   | Students should have finished 120 credits at 5000 level, or 90 credits at 5000 level and 30 at 4000 level   |               |                  |        |
| <b>Anti-requisite(s):</b>  | AH5099  |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 10 hours of seminars (x 3 weeks), 20 hours of fieldwork (x 3 weeks), 8 hours of meetings with supervisor in total.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr L Goddard  |               |                  |        |

Optional modules – semester 1 - choose 2:

| AH5101 Readings in Art History or History of Photography  |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>This module is a detailed study of an Art Historical or History of Photography topic agreed between tutor and student. Taught on a one-to-one basis, this reading course will allow postgraduate students to acquire a detailed knowledge of an area of art history in preparation for further research. It will allow them also to develop their research bibliographic skills.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Art History Postgraduate students intending to proceed to PhD and Central and East European Studies Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminar.  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr L Goddard   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Various  |               |                  |        |

## Art History - Art History MLitt & MPhil - 2015/6 - November 2015

| AH5102 Bibliography for Art History or History of Photography  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| This module is an exercise in the bibliography and historiography of an aspect of the history of art or the history of photography which in appropriate cases can serve as a useful preparation for a research dissertation. |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Art History Postgraduate students intending to proceed to PhD |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminar.  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr L Goddard   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | Various  |               |                  |        |

| AH5118 Paragons of Northern Baroque: Rubens and Rembrandt  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| Rubens and Rembrandt are the two most important Northern artists of the seventeenth century and any developed understanding of Netherlandish art during this century relies on a sound acquaintance with their work. The differences between Rubens and Rembrandt (which were socio-economic and biographical, as well as artistic) render a joint study of them unusually instructive and also involve students with some of the most outstanding works of seventeenth century art. (Paintings by both are available for first hand study in Edinburgh and Glasgow.) This module examines the two artists in sequence, and thematically: the art of Rubens is explored first, followed by that of Rembrandt. Themes studied include religious, mythological, allegorical and historical iconography, landscape and portraiture. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Art History Postgraduate Programmes within the School |               |                  |   |
| <b>Anti-requisite(s):</b>  | AH4076   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 class.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Luxford   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Luxford   |               |                  |   |

| AH5140 The University of St Andrews Photographic Collection   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.                                 |               |                  |   |
| <p>This module will explore, interpret and analyse photographic materials in the University of St Andrews Special Collections. The collection holds a fascinating range of 19th and 20th century photographic works including some of the most prized treasures in the photographic canon; this includes work by Hill and Adamson, Sir David Brewster, and William Henry Fox Talbot, as well as contemporary photography. The module is, therefore, object-based and will familiarise students with the special properties of archival resources, their study, maintenance and display. Given the practical dimensions of this module students will be expected to spend time in the archive of self-directed study. This study will be facilitated and guided by academic and library staff where appropriate.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Art History Postgraduate students. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 tutorial.              |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%                               |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T Normand                                    |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr T Normand                                    |               |                  |   |

| AH5142 School: Images, Spaces, Artefacts and Ideas of Learning  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.                                 |               |                  |   |
| <p>This module comprises an interdisciplinary investigation into the images, spaces, artifacts and ideas of schooling. It focuses on the artistic treatment of 'learning' and the development of school architecture. Among the media considered are painting, installation, photography, graphic art, furniture, design and film. Consideration is given to the interpretation of key works by such artists/architects as Wren, Mackintosh, the Smithsons, Holbein, Brueghel, Steen, Moholy-Nagy, Vigo, Rivera, Kantor and Hirst. The module aims to enhance students' conceptualisation of 'school', their engagement with contemporary debates concerning the nature of education and their critical awareness of schooling's socio-political and cultural issues.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Art History Postgraduate students. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 tutorial.              |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%                               |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Howard                                     |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Howard                                     |               |                  |   |

## Art History - Art History MLitt & MPhil - 2015/6 - November 2015

| AH5152 Re-staging Performance Art: The Politics of Audience and Documentation   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>Performance art, which has so often deliberately kept itself to the margins of art practice, has now become mainstream: both Tate Modern and MoMA have curators of performance, and regularly show historic and contemporary performance art. This module looks at the role that re-performance and documentation have played in this seismic shift, considering the ways in which artists have used these strategies to create multiple audiences for their works. We will look at the shifting political constructions of audiences and participants within performance art from the activism of the 1960s and 1970s, through to performance after the internet and the impact of globalization and neoliberalism on contemporary practices. Throughout, we will interrogate the traditional stress on performance as an art of ephemerality and transience by paying close attention to the role of documentation and the labouring, subjective body, and the (de)constructions of identity that artists have used performance to explore. Considering both single-artist works and collective practices, by the end of the module students will have acquired both an overview of performance art's histories since the 1960s, and an awareness of the key theoretical issues in analysing a range of works into the present moment.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Taught programmes in the School.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 6 x 2-hour seminars, 2 x 3-hour film/video viewing, 2 hours of meetings, and 8 hours of fieldwork over the semester. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Spencer  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Spencer  |               |                  |   |

| AH5153 Byzantine Constantinople: Art and Architecture of an Imperial Capital   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>Constantinople was the political and cultural capital of the Byzantine Empire, the most long-lived empire in the history of western civilisation. This module introduces students to the vibrant cultural history of the city through its topography, monuments and art from its founding in 330 CE through to its fall to the Ottoman forces in 1453.</p> <p>Using primary and secondary sources, archaeological data and the study of existing monuments, we will explore the cultural and artistic life of the Byzantine capital, in order to capture its shifting image. We will examine a wide range of media (buildings, mosaics, frescoes, icons, ivories and luxury objects) in order to gain a rounded view of the art of Constantinople and we will consider the function of images and objects in specific historic contexts. Particular emphasis will be placed on the theory and function of icons or holy images, the use of art to project imperial ideology, the relationship between written sources and pictorial narrative, matters of patronage and the relationship between art/architecture and ritual.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Taught programmes in the School of Art History.           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory lecture followed by 1.5-hour seminars (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L Kouneni  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr L Kouneni  |               |                  |   |

Optional modules – semester 2 - choose 2:

| AH5094 Current Issues in Renaissance Arts  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>One of the most productive, innovative, influential and thought-provoking periods in the history of Western art, the Renaissance keeps eliciting new questions. This module will explore current themes and materials relating to the visual arts of the Renaissance in Europe. It is largely based on close reading, discussion and interpretation of sources, from current scholarship to textbooks, from Renaissance artwork to related primary materials to contemporary exhibitions. Students will become familiar with such topics and issues as art and domesticity, temporalities of Renaissance art, the global Renaissance and the relation between art and image within this period. Authors we will read, both Anglo-American and European continental, include Horst Bredekamp, Lorraine Daston, Georges Didi-Huberman, Paula Findlen, Claire Farago, and Christopher Wood. The module aims to strengthen students' critical analysis of primary and secondary materials, focusing on the key question what the art of the Renaissance has to tell us today.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Art History Postgraduate students.                                      |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1.5-hour seminars (x 8 weeks), 4 hours of fieldwork in total. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E van Kessel  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E van Kessel  |               |                  |   |

| AH5100 Art Historical Resources and Methods  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am Wed  |               |                  |   |
| <p>This module, designed for those enrolled for the MLitt and M.Phil., will introduce students to the resources (textual, visual, and electronic) available in St Andrews and elsewhere in Britain for research into the history of art. Emphasis will be placed on electronic resources accessible through the web. As far as possible instruction will be geared to the precise interests of students in order to provide them with a thorough preparation for the writing of their dissertations. Among the topics covered will be the collecting and recording of bibliographic information, the use of visual and documentary archives, note taking and the presentation (oral and written) of scholarly research. Each class will include instruction by the tutor and practical exercises undertaken by students.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Strongly advised for Art History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Sessional seminars.                |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L Goddard  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr L Goddard  |               |                  |   |

## Art History - Art History MLitt & MPhil - 2015/6 - November 2015

| AH5146 Issues in Photographic Criticism  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to key writings and debates in the history of photographic criticism from the 1830s to the present day. Our aim is to investigate the historical and methodological questions raised by critical approaches to photography and to provide a good grounding in the major issues and debates in the history of the medium. Among other themes, we will examine the social meanings of photography, the contested nature of its critical terms, its institutional status and curatorial practices, and the relevance of photography for debates on modern subjectivity and identity politics.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Art History and History of Photography Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar and occasional fieldwork.                   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L Gartlan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr L Gartlan   |               |                  |   |

| AH5147 Palladio in Venice  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>When Andrea Palladio received his first commissions in Venice, he was already a well-known architect: his Venetian works were to occupy the last decades of his life (he died in 1580 at the age of 72). In Venice Palladio was able to develop a new kind of relationship between an architect and his patrons, one in which he was often more an intellectual collaborator than a craftsman for hire. The module is organised around the different types of patron: patriarchs of the Church, religious communities, the state, and charitable institutions. Historical narratives, the agendas of patronage, secular and religious politics, architectural conception, and the various decorative programmes will all be considered in order to paint a vivid portrait of Palladio's Venice.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Art History Postgraduate students.                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly seminars and film/video viewing. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L Moretti  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr L Moretti  |               |                  |   |



## Art History - Art History MLitt & MPhil - 2015/6 - November 2015

| AH5190 Experimental Art of the 1960s   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm Thu                                     |               |                  |   |
| <p>This module addresses examples of innovative art practices from around the globe from the late 1950s to the mid-1970s. This post-war period, commonly known as 'the Sixties', has been categorized as a period of upheaval and transformation, and we shall address the degree to which art from this period is informed by these social and geopolitical tendencies. The module is structured thematically, and examines the diverse and competing approaches to art making that arose during these years. Works in a range of media will be examined, including painting, film, photography, choreography, installation, sculpture, drawing, architecture, performance, new media and language-based art practices. Themes and movements that will be covered include post-colonialism, realism, modernism, assemblage, fluxus, minimalism, arte povera, neo-concretism, earth art, environmentalism and conceptualism.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Art History Postgraduate students. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures.                |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                               |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Rider                                      |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Rider                                      |               |                  |   |

| AH5197 Musing in the Museum  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.                                 |               |                  |   |
| <p>The museum has served as a muse for philosophers, writers and artists from ancient times to the present day. Playing with the etymology of museums as places 'inspired by the muses', this course investigates responses by selected writers to the visual arts and the museum. Beginning with the Pre-Raphaelites, we shall explore the development of inter-arts relationships in the work of novelists, poets, writer-painters and illustrators from Britain and Ireland ca. 1850-1939, playing particular attention to the role of the museal space in ekphrastic encounters, and to issues of gender. Case studies will include Walter Pater, Dante Gabrielle Rossetti, Christina Rossetti, Aubrey Beardsley, W. H. Auden, W. B. Yeats, Elizabeth and Lily Yeats, and Louis MacNeice. This module will attract students with some background in literary studies as well as art history/museology.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Art History Postgraduate students. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and fieldwork   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                               |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Brown                                      |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Brown                                      |               |                  |   |

## School of Art History

### Museum and Gallery Studies

**Postgraduate Diploma** (*this is also the Taught element of the MLitt and MPhil programmes*):

120 credits: AH5504, AH5505 and AH5506

**Postgraduate Diploma (part-time with residential requirement):**

120 credits: AH5560, AH5561 and AH5562

**MLitt:**

120 credits from the Taught Element plus AH5099

**MPhil:**

120 credits from the Taught Element plus a thesis of not more than 40,000 words based normally on research taken in close conjunction with a Museum or Gallery

AND

### National Trust for Scotland Studies

**MPhil:** 120 credits from the Taught Element in Museum and Gallery Studies plus a thesis of not more than 40,000 words based on research undertaken in close conjunction with the National Trust for Scotland

## Compulsory modules – full time programme:

| AH5504 Theory and Practice of Museums, Art Galleries and Related Organisations, Part 1: Collections in Context  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | All day Tue.   |                           |                  |   |
| This module is only available to students taking the full-time Postgraduate Diploma, MLitt or M.Phil. in Museum and Gallery Studies or M.Phil. in National Trust for Scotland Studies. Together with AH5505-AH5506 it forms an essential part of a vocational training programme which combines knowledge and skills development to prepare students for work in the museums/galleries/heritage sector or for further research in this area. Subjects covered include: museum definitions and museum professions; types of museums and museum support systems; history of collecting and museums; current issues and ethics; museum standards schemes; acquisition and disposal policies and practices; collections documentation; collections care and preventive and remedial conservation; security and insurance; collections-based research. |  |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for full-time Museum and Gallery Studies and National Trust for Scotland Studies Postgraduate Programmes. |                           |                  |   |
| <b>Co-requisite(s):</b>   | AH5505, AH5506   | <b>Anti-requisite(s):</b> | AH5560           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar, also practical classes and field trips.                                 |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Ms A Gunn  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

## Art History - Museum & Gallery Studies - 2015/6 - November 2015

### AH5505 Theory and Practice of Museums, Art Galleries and Related Organisations, Part 2: Audiences and Management

|  |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | All day Tue  |                           |                  |   |
| <p>This module is only available to students taking the full-time Postgraduate Diploma, MLitt or M.Phil. in Museum and Gallery Studies or M.Phil. in National Trust for Scotland Studies. Together with AH5504 and AH5506 it forms an essential part of a vocational training programme which combines knowledge and skills development to prepare students for work in the museums/galleries/heritage sector or for further research in this area. Subjects covered include: understanding audiences; information services, temporary and permanent exhibitions; display and interpretation; education services and outreach; ethics and current issues; governing bodies and administration; forward planning; project management; finances and fundraising; personnel management; marketing, publicity and media relations.</p> |  |                           |                  |   |
| <b>Programme module type:</b>  | Compulsory for full-time Museum and Gallery Studies and National Trust for Scotland Studies Postgraduate Programmes. |                           |                  |   |
| <b>Co-requisite(s):</b>  | AH5504, AH5506   | <b>Anti-requisite(s):</b> | AH5561           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar, also practical classes and field trips.                                 |                           |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr U Weiss   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                  |   |

### AH5506 Project Work (Museum and Gallery Studies)

|  |  |                           |                  |            |
|--|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | Wednesday morning  |                           |                  |            |
| <p>This module is only available to students taking the full-time Postgraduate Diploma, MLitt or M.Phil. in Museum and Gallery Studies or M.Phil. in National Trust for Scotland Studies. Together with AH5504 and AH5505 it forms an essential part of a vocational training programme which combines knowledge and skills development to prepare students for work in the museums/galleries/heritage sector or for further research in this area. This module provides most of the practical skills element of the programme. The practical work undertaken can vary, depending on the particular interests of individual students, but it will normally include: (i) experience of preparing an exhibition as part of a team, including research, selection of exhibits, production of written materials, mounting of displays and provision of educational events; (ii) another, individual project, selected by the student and covering another area of museum work, e.g. collections management, museum outreach activities or museum management.</p> |  |                           |                  |            |
| <b>Programme module type:</b>  | Compulsory for full-time Museum and Gallery Studies and National Trust for Scotland Studies Postgraduate Programmes. |                           |                  |            |
| <b>Co-requisite(s):</b>  | AH5504, AH5505   | <b>Anti-requisite(s):</b> | AH5562           |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar per week and practical work.  |                           |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |            |
| <b>Module Co-ordinator:</b>  | Ms A Gunn  |                           |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                  |            |

## Art History - Museum & Gallery Studies - 2015/6 - November 2015

| AH5099 Dissertation for MLitt Programme/s  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.                        |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the middle of August. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for all MLitt Postgraduate Programmes within the School. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual Supervision.                      |               |                  |            |
| <b>Assessment pattern:</b>   | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr K Rudy   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |            |

### Compulsory modules – part-time programme - not running 2015/6:

| AH5560 Theory and Practice of Museums, Art Galleries and Related Organisations, Part 1: Collections in Context  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11             | <b>Semester:</b> | 1 |
| <b>Academic year:</b>   | 2016/7   |                           |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |                           |                  |   |
| This module is only available to students taking the Postgraduate Diploma, MLitt or MPhil in Museum and Gallery Studies or MPhil in National Trust for Scotland Studies. Together with AH5561 and AH5562 it forms an essential part of a vocational training programme which combines knowledge and skills development to prepare students for work in the museums/galleries/heritage sector or for further research in this area. Subjects covered include: museum definitions and museum professions; types of museums and museum support systems; history of collecting and museums; current issues and ethics; museum standards schemes; acquisition and disposal policies and practices; collections documentation; collections care and preventive and remedial conservation; security and insurance; collections-based research. |  |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for part-time Museum and Gallery Studies and National Trust for Scotland Studies Taught Postgraduate Programmes |                           |                  |   |
| <b>Co-requisite(s):</b>   | AH5561, AH5562   | <b>Anti-requisite(s):</b> | AH5504           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Teaching takes place over 2 x 5-day residential schools at St Andrews, usually in January and June. |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr U Weiss   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

## Art History - Museum & Gallery Studies - 2015/6 - November 2015

### AH5561 Theory and Practice of Museums, Art Galleries and Related Organisations, Part 2: Audiences and Management

|  |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Academic year:</b>  | 2017/8   |                           |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| <p>This module is only available to students taking the part-time Postgraduate Diploma, MLitt or M.Phil. in Museum &amp; Gallery Studies or M.Phil. in National Trust for Scotland Studies. Together with AH5561 and AH5562 it forms an essential part of a vocational training programme which combines knowledge and skills development to prepare students for work in the museums/galleries/heritage sector or for further research in this area. Subjects covered include: understanding audiences; information services, temporary and permanent exhibitions; display and interpretation; education services and outreach; ethics and current issues; governing bodies and administration; forward planning; project management; finances and fundraising; personnel management; marketing, publicity and media relations.</p> |  |                           |                  |   |
| <b>Programme module type:</b>  | Compulsory for part-time Museum and Gallery Studies and National Trust for Scotland Studies Postgraduate Programmes.       |                           |                  |   |
| <b>Co-requisite(s):</b>  | AH5560, AH5562   | <b>Anti-requisite(s):</b> | AH5505           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Teaching takes place over 2 x 5-day residential schools at St Andrews, usually in January and June. |                           |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr U Weiss   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                  |   |

### AH5562 Project Work (Museum and Gallery Studies)

|  |  |                           |                  |            |
|--|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Academic year:</b>  | 2016/7 & 2017/8  |                           |                  |            |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |            |
| <p>This module is only available to students taking the part-time Postgraduate Diploma, MLitt or M.Phil. in Museum and Gallery Studies or M.Phil. in National Trust for Scotland Studies. Together with AH5560 and AH5561 it forms an essential part of a vocational training programme. Project work is undertaken in the student's own museum as far as possible. The practical work undertaken can vary, depending on the particular interests of individual students, but it should normally include: (i) exhibition, interpretation, or display work; (ii) another, individual project, selected by the student and covering another area of museum work, e.g. collections management, museum outreach activities or museum management.</p> |  |                           |                  |            |
| <b>Programme module type:</b>  | Compulsory for part-time Museum and Gallery Studies and National Trust for Scotland Studies Postgraduate Programmes. |                           |                  |            |
| <b>Co-requisite(s):</b>  | AH5560, AH5561   | <b>Anti-requisite(s):</b> | AH5506           |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual tutorials at residential schools.  |                           |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |            |
| <b>Module Co-ordinator:</b>  | Dr U Weiss   |                           |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                  |            |

## School of Biology

### Taught Programmes

*Click on title to jump to detailed pdf of that programme*

#### Postgraduate Certificate:

Marine Mammal Science ([link](#))

Sustainable Aquaculture (Vertebrates) ([link](#))

Sustainable Aquaculture (Invertebrates) ([link](#))

#### Postgraduate Diploma:

Marine Mammal Science ([link](#))

Sustainable Aquaculture ([link](#))

#### MSc:

Ecosystem-Based Management of Marine Systems ([link](#))

Marine Mammal Science ([link](#))

Sustainable Aquaculture ([link](#))

# Masters in Ecosystem-Based Management of Marine Systems

## Programme Requirements

*Taught Element:*

80 credits: BL5303, BL5304, BL5111, BL5113, ID5011

at least 40 credits: BL5305, BL5322, BL5323, (BL5124 or BL4249)

**MSc:**

120 credits from the Taught Element, plus BL5399 (60-credit Research Project module)

## Compulsory Modules - Semester 1:

| BL5111 Quantitative Methods for Biology  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module provides the basic numerical and computational skills necessary for visualising and summarising data sets. It is designed as a primer for more advanced courses in statistical modeling and also as an introduction to the computer language R. The examples and computer practicals are motivated from the ecological literature. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Marine Mammal Science and MSc in Ecosystem-based Management of Marine System Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> To be arranged, 7 weeks long.   |               |                  |   |
| <b>Assessment pattern:</b>   | 1.5-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Smout   |               |                  |   |

| BL5113 Statistical Modelling of Biological Data   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged. 4 weeks long.  |                           |                  |   |
| Statistical modelling is an indispensable tool for the analysis of scientific data. This advanced level module will introduce methods for fitting models to biological data, mainly using R software. Approaches will include multiple regression, GLMs, and GAMs. We will consider some of the difficulties that can occur in modelling biological data sets e.g. temporal autocorrelation, and will look at ways to check and test models. We will consider approaches to model selection. The course will also cover multivariate techniques such as cluster analysis. |  |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Marine Mammal Science and MSc in Ecosystem-based Management of Marine Systems Postgraduate Programmes. |                           |                  |   |
| <b>Co-requisite(s):</b>   | BL5111   | <b>Anti-requisite(s):</b> | MT5753           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 x 1-hour lectures and 4 x 3-hour labs and 1 x 2-hour seminar. Four weeks in total.                  |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Smout   |                           |                  |   |

## Biology - Ecosystem-Based Management of Marine Systems - 2015/6 - November 2015

| BL5304 Ecosystem-based Management of Marine Systems   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module will introduce the concept of 'Ecosystem-based management', exploring its development from more simplistic, single-species approaches. Students will make case-studies in a workshop environment of iconic, managed ecosystems including the Southern Ocean and Australia's Great Barrier Reef. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Ecosystem-based Management of Marine Systems Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and Seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof A Brierley  |               |                  |   |

| ID5011 Geographic Information Systems for Environmental Management  |  |                           |                        |   |
|---|--|---------------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11             | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                           |                        |   |
| This module provides an introduction to Geographic Information systems and their use in environmental problem solving. The module will be taught through a series of lectures, tutorials, laboratory classes and individual projects. The module will be assessed through class exercises and the final, short individual project. Students will be introduced to methods of acquiring, storing, analysing and displaying (2D and 3D) spatial digital data using the ArcGIS data package. An introduction to data manipulation and statistical techniques on a variety of environmental examples will be given. The module is taught within the School of Geography & Geosciences but incorporates datasets and analysis techniques used in earth and environmental science, biology, archaeology, and mathematics. |  |                           |                        |   |
| <b>Programme module type:</b>   | Compulsory for Ecosystem-Based Management of Marine Systems, Optional for Mathematics, Statistics, Managing Environmental Change, Management and Environmental History Taught Postgraduate Programmes. |                           |                        |   |
| <b>Pre-requisite(s):</b>  | A basic ability in computer skills (Basic word processing, spread sheet analysis)  | <b>Anti-requisite(s):</b> | GE5005, ID5010, ID5012 |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practicals and occasional tutorials.  |                           |                        |   |
| <b>Assessment pattern:</b>  | Coursework = 100% (portfolio 70%, Individual Project 30%)  |                           |                        |   |
| <b>Module Co-ordinator:</b>   | Dr C R Bates   |                           |                        |   |



## Compulsory Modules - Semester 2:

| BL5303 Marine Systems Research Methods   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The study of marine systems requires familiarity with a variety of methods of sampling the marine environment. These methods include use of the instruments and sampling devices used in physical, geological, biological, chemical and biogeochemical oceanography. The students will use these methods both on ship and in the laboratory, collecting data that they will analyze and disseminate. The module will also include development of scientific and proposal writing skills. This module is taught at the Scottish Association for Marine Science facility at Oban.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Ecosystem-Based Management of Marine Systems Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 7 lectures, 2 tutorials and 5 practicals in total.                  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr T Nickell (SAMS)  |               |                  |   |

## Compulsory Module for MSc - Whole Year:

| BL5399 Ecosystem-Based Management of Marine Resources Research Project   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| <p>The research project or dissertation will involve the study of a defined problem within the field of marine systems science. Students will be required to collate and analyze data and discuss their results in the light of existing literature. In some cases, projects might also involve the design of experiments or the gathering of data. Each project will be written up in the form of a thesis.</p> |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for MSc in Ecosystem-Based Management of Marine Systems Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> To be arranged.   |               |                  |            |
| <b>Assessment pattern:</b>   | Research report or Thesis of up to 15,000 words (excluding bibliography) = 100%            |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr S Smout   |               |                  |            |

Optional modules (choose at least 40 credits from Semester 2 modules)

| BL5305 Professional Skills  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 5  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The module will comprise a series of interactive lectures and practical workshops covering project and time management, how to review, read and write a scientific paper, and how to promote your research to the public, as well as an excursion/workshop to meet and discuss the work of prospective employers, such as the MASTS/SNH marine seminar for graduate students. The course will include tutorials and interactive workshops, with a final assessment on project management. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Ecosystem-based Management of Marine Systems Postgraduate Programme.                 |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 1-hour introductory lecture, 3 x 3-hour practical classes over the semesters. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L Calder  |               |                  |   |

| BL5322 Marine Management, Policy and Planning  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module provides students with a broad understanding of the issues surrounding the management of marine resources. Concepts of sustainability, coastal management and marine spatial planning will be explored from the perspective of a variety of stakeholders (e.g. nature conservation, oil/gas, fisheries and renewable energy). The module will identify key concepts underpinning sustainability and develop student awareness of the complex ecological, social, economic and political issues involved in marine management. Students will also develop an in-depth marine plan for a local area, gaining valuable experience of the approaches and problems of the emerging field of marine spatial planning. This module is taught at the Scottish Association for Marine Science facility at Oban. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Ecosystem-Based Management of Marine Systems Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 13 lectures, 2 x half-day practical sessions and a 1-day workshop |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Fox (SAMS)  |               |                  |   |

| <b>BL5323 Advanced Modelling</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>Building on the basic concepts of modelling, and systems modelling taught at St Andrews, this module will teach, through lectures and linked practical sessions, an introduction to physical circulation models, individual and population-based spatial models and ecosystem modeling techniques. Additionally, coupled biophysical models will be taught. The module will give an overview of the different physical and biological models used in marine systems science, including the assumptions, parameters needed and some examples of these models, together with application of techniques and interpretation of outcomes. This module is taught at the Scottish Association for Marine Science facility at Oban.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Ecosystem-Based Management of Marine Systems Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 12 lectures and 7 x 3-hour practical classes over 3 weeks.        |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Heymans (SAMS)  |               |                  |   |

**Optional modules (choose 1 of the following):**

| <b>BL5124 Predator Ecology in Polar Ecosystems - a Field Course in Antarctica</b>  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | lectures in S1, field course in S2 including 3 weeks in southern Argentina and Antarctica)  |               |                  |            |
| <p>This module offers students the unique opportunity to gain theoretical and practical experience in polar ecology with special emphasis on top predators (cetaceans, pinnipeds, sea birds), ecosystem functionality and management of Antarctic marine living resources. Students will participate in a vessel-based expedition to Antarctica during the austral summer and will also explore southern Argentina. This field trip involves travelling to southern Argentina, conducting at-sea surveys during transit to/ from the Antarctic Peninsula, participating in shore-based activities, and exploring Antarctic coastal waters from small boats. Through a series of specialist lectures, student-led seminars, on-board practicals, field excursions and dedicated observational studies students will gain in-depth understanding and critical awareness of the current scientific, conservation and management challenges of the Antarctic ecoregion. Upon return to St Andrews students will complete a specialist case study on a selected topic which will culminate in the presentation of a manuscript for submission to a journal.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Optional for MSc in Ecosystem-Based Management of Marine Systems and in Marine Mammal Science Postgraduate Programmes.  |               |                  |            |
| <b>Pre-requisite(s):</b>   | Undergraduate degree in relevant Biological disciplines and/or admittance to St Andrews MSc Programmes, Medical certificate documenting fit for travel to remote Antarctica |               |                  |            |
| <b>Anti-requisite(s):</b>  | BL4301  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 8 x 1.5 hour lectures in S1 and several tutorials plus full day field practicals during the expedition   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr S Heinrich   |               |                  |            |

OR

| BL4249 Scientific Diving   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | Full Time 2-3 weeks in March/April   |               |                  |   |
| <p>This module will provide both theoretical and practical experience of the techniques used by scientific divers. The module is restricted to students who have an existing diving qualification (PADI Advanced Open Water Diver or BSAC Sports Diver or equivalent). Seminars during the field trip will cover diving safety, dive project planning, management, risk assessment and the theory behind underwater surveying techniques. Abroad, students will receive training in underwater marine identification, construction and deployment of underwater surveys and sampling techniques, gaining practical experience of recording, analysing and interpreting survey data. Then they conduct a mini-research project using suitable survey techniques and present their findings through a report and a presentation.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Ecosystem-Based Management of Marine Systems                         |               |                  |   |
| <b>Pre-requisite(s):</b>   | Permission required, PADI Advanced Open Water Diver or BSAC Sports Diver (or equivalent) |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 8 hours per day for 2 weeks.                                      |               |                  |   |
| <b>Assessment pattern:</b>   | <b>As used by St Andrews:</b><br>Coursework = 100%                                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Peddie  |               |                  |   |

## School of Biology

### Masters in Marine Mammal Science

Also

Postgraduate Certificate

Postgraduate Diploma

### Programme Requirements

*Taught Element:*

75 credits from compulsory modules: BL5104, BL5111, BL5113, BL5201, BL5202

and

45 credits from optional modules: BL5103, BL5121, BL5122, BL5124, BL5125, MT5751

**MSc:**

120 credits from the Taught Element, plus BL5199 (60-credit Research Project module)

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules - Semester 1:

| BL5111 Quantitative Methods for Biology  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module provides the basic numerical and computational skills necessary for visualising and summarising data sets. It is designed as a primer for more advanced courses in statistical modeling and also as an introduction to the computer language R. The examples and computer practicals are motivated from the ecological literature. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Marine Mammal Science and MSc in Ecosystem-based Management of Marine System Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> To be arranged, 7 weeks long.   |               |                  |   |
| <b>Assessment pattern:</b>   | 1.5-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Smout   |               |                  |   |

## Biology - Marine Mammal Science - 2015/6 - November 2015

| BL5113 Statistical Modelling of Biological Data   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged. 4 weeks long.   |                           |                  |   |
| Statistical modelling is an indispensable tool for the analysis of scientific data. This advanced level module will introduce methods for fitting models to biological data, mainly using R software. Approaches will include multiple regression, GLMs, and GAMs. We will consider some of the difficulties that can occur in modelling biological data sets e.g. temporal autocorrelation, and will look at ways to check and test models. We will consider approaches to model selection. The course will also cover multivariate techniques such as cluster analysis. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Marine Mammal Science and MSc in Ecosystem-based Management of Marine Systems Postgraduate Programme. |                           |                  |   |
| <b>Co-requisite(s):</b>   | BL5111  | <b>Anti-requisite(s):</b> | MT5753           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 x 1-hour lectures and 4 x 3-hour labs and 1 x 2-hour seminar. Four weeks in total.                 |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Smout  |                           |                  |   |

| BL5201 Biology of Marine Mammals   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged. Weeks 1-7  |               |                  |   |
| This module introduces the zoogeography of marine mammals and the morphological, physiological and behavioural adaptations which have enabled this diverse group to successfully colonise all of the world's oceans and some freshwater systems. Students will gain an understanding of the physiological and behavioural complexity underlying movement patterns, diving, foraging, reproduction, and social dynamics of marine mammals across different temporal and spatial scales. Lectures will focus on topical issues and selected examples illustrating and contrasting some of the strategies employed by different marine mammal groups. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Marine Mammal Science Postgraduate Programme.                |               |                  |   |
| <b>Pre-requisite(s):</b>   | Undergraduate courses in behaviour, ecology, physiology, zoology or marine science |               |                  |   |
| <b>Required for:</b>   | BL5121, BL5122   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 24 x 1.5-hour lectures over 7 weeks and 2 tutorials.        |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Heinrich  |               |                  |   |

| BL5202 Case Studies in Marine Mammal Biology   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged. Weeks 1-7  |               |                  |   |
| <p>Many of the most topical issues in marine mammal science revolve around ecology and behaviour. In this module, students will explore aspects of diving, foraging, reproduction and social behaviour of marine mammals in greater detail through a series of student-lead seminars, lab practicals and field excursions. Computer practicals will provide training in basic principles of GIS application and, passive acoustic techniques. Emphasis will be placed on current advances in understanding and research methods. The issues discussed here are often at the base of human-marine mammal conflicts, thus understanding the underlying ecological principles not only provides interesting insights into marine mammal biology but also yields consequences for marine mammal conservation and management.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Marine Mammal Science Postgraduate Programme.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, 4 seminars, 1 workshop, 7x 3-hour practicals and 1 day-long field trip in total over 7 weeks. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Heinrich  |               |                  |   |

### Compulsory module - Semester 2:

| BL5104 Conservation and Management of Marine Mammals   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am (weeks 8 - 11)  |               |                  |   |
| <p>From the heated debates surrounding whaling to calls for seal culls to protect commercial fish stocks, issues pertaining to marine mammals feature regularly in the public domain and often polarise public opinion. Finding ways to address human-marine mammal conflicts and advise on mitigation have become important tasks for many marine mammal scientists. Through a series of lectures, seminars, debates and workshops, students will explore human-marine mammal interactions to better understand the underlying factors. They will learn to critically evaluate current conservation and management issues and will explore ways in which sound science can contribute to alleviate existing and future conflicts.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Marine Mammal Science Postgraduate Programme.                             |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures and 1 seminar each week for 4 weeks plus 1 workshop in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 1.5-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Heinrich   |               |                  |   |

**Compulsory Module MSc - Whole Year:**

| BL5199 Marine Mammal Science Research Project  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| <p>The research project or dissertation will involve the study of a defined problem within the field of marine mammal science. Students will be required to collate and analyse data and discuss their results in the light of existing literature. In some cases, projects might also involve the design of experiments or the gathering of data. Students are tasked with developing a research proposal on their project topic during semester 2. Each project will then be written up in the form of a thesis and presented as a poster during the end of year MSc student conference.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for MSc in Marine Mammal Science Postgraduate Programme.   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> To be arranged.  |               |                  |            |
| <b>Assessment pattern:</b>   | Research report or Thesis of up to 15,000 words (excluding bibliography) = 70 %, Research proposal = 20%, Poster presentation = 10% |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr S Heinrich   |               |                  |            |

**Optional Modules:**

| BL5103 Population Biology of Marine Mammals   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The module reviews the fundamental concepts of population dynamics (growth, density dependence, stability, population structure) and how these are interpreted in the light of the various life-history strategies adapted by different species of marine mammals. It then examines topics in population genetics, trophic interactions and spatial dynamics. The module also covers practical issues involved in population viability analysis and anticipated future developments in integrative modelling approaches.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Marine Mammal Science Postgraduate Programme.                                       |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 lectures, and 1 practical class each week for 3 weeks and 2 seminars in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 1.5-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Smout  |               |                  |   |



| <b>BL5121 Current Issues in Marine Mammal Behaviour</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged. (3 weeks)  |               |                  |   |
| <p>Marine mammals are often seen as highly intelligent and complex in their behaviour. This module will investigate such claims by discussing current views and recent advances in the study of marine mammal social behaviour. Each student will present one topic to the class and lead the discussion on it. Topics covered will include brain evolution, dolphin signature whistles, referential communication, cetacean culture, equivalence classes, cooperation and concept formation.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Marine Mammal Science Postgraduate Programme.    |               |                  |   |
| <b>Pre-requisite(s):</b>  | BL5201   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture and 9 seminars spread over 3 weeks. |               |                  |   |
| <b>Assessment pattern:</b>  | 1.5-hour Written Examination = 50%, Coursework = 50%                 |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr V Janik   |               |                  |   |

| <b>BL5122 Current Issues in Biologging</b>   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am (4 weeks)   |               |                  |   |
| <p>This module will present an introduction to marine mammal biologging science: the theory and practice of logging and relaying physical and biological data using animal-attached tags. Lectures will cover the technology currently available for measuring animal movements, investigating behaviour, ecology and physiology, some of the problems associated with tag design in terms of how data is stored and transmitted, and problems associated with data analysis and data display.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Marine Mammal Science Postgraduate Programme.                           |               |                  |   |
| <b>Pre-requisite(s):</b>   | BL5201  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-2 lectures, 1 seminar and 1 practical class each week for 4 weeks. |               |                  |   |
| <b>Assessment pattern:</b>   | 1.5-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Hooker   |               |                  |   |

## Biology - Marine Mammal Science - 2015/6 - November 2015

| BL5124 Predator Ecology in Polar Ecosystems - a Field Course in Antarctica   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | lectures in S1, field course in S2 including 3 weeks in southern Argentina and Antarctica)  |               |                  |            |
| <p>This module offers students the unique opportunity to gain theoretical and practical experience in polar ecology with special emphasis on top predators (cetaceans, pinnipeds, sea birds), ecosystem functionality and management of Antarctic marine living resources. Students will participate in a vessel-based expedition to Antarctica during the austral summer and will also explore southern Argentina. This field trip involves travelling to southern Argentina, conducting at-sea surveys during transit to/ from the Antarctic Peninsula, participating in shore-based activities, and exploring Antarctic coastal waters from small boats. Through a series of specialist lectures, student-led seminars, on-board practicals, field excursions and dedicated observational studies students will gain in-depth understanding and critical awareness of the current scientific, conservation and management challenges of the Antarctic ecoregion. Upon return to St Andrews students will complete a specialist case study on a selected topic which will culminate in the presentation of a manuscript for submission to a journal.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Optional for MSc in Ecosystem-Based Management of Marine Systems and in Marine Mammal Science Postgraduate Programmes.  |               |                  |            |
| <b>Pre-requisite(s):</b>   | Undergraduate degree in relevant Biological disciplines and/or admittance to St Andrews MSc Programmes, Medical certificate documenting fit for travel to remote Antarctica |               |                  |            |
| <b>Anti-requisite(s):</b>  | BL4301  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 8 x 1.5 hour lectures in S1 and several tutorials plus full day field practicals during the expedition   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr S Heinrich   |               |                  |            |

| BL5125 Advanced Bioacoustics for Marine Mammal Science  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Bioacoustics is an important topic in marine mammal science, because of the use the animals themselves make of sound, because it is often the most practical way to detect their presence, and because of the impacts anthropogenic sounds can have on acoustically sensitive species. This course provides an advanced survey of current topics, from understanding the physics of sound and how it is measured and analysed, through using sound to detect and monitor marine mammal presence, to the assessment and mitigation of anthropogenic noise impacts. There will be a strong emphasis on digital analysis and practical exercises designed to introduce students to the range of techniques and tools currently used in the field.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Marine Mammal Science Postgraduate Programme.  |               |                  |   |
| <b>Pre-requisite(s):</b>  | Students should have had some background in either marine mammal biology or physics, and should have studied some kind of mathematics to SCQF Level 7 or equivalent. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 8 lectures, 8 practical classes, 3 tutorials and 4 hours of fieldwork over a 4 week period.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L Rendell   |               |                  |   |

## Sustainable Aquaculture programmes

### Programme Requirements

#### Postgraduate Certificate:

Sustainable Aquaculture (Vertebrates)

BL4801, BL4804, BL5807, BL5809 and two of BL5802, BL5804, BL5805

#### Postgraduate Certificate:

Sustainable Aquaculture (Invertebrates)

BL4801, BL4803, BL5806, BL5808 and two of BL5802, BL5804 and BL5805.

#### Postgraduate Diploma:

120 credits from BL4801, BL4802 or (BL4803 and BL4804), BL5801 or (BL5806 and BL5807), BL5802, BL5803 or (BL5808 and BL5809), BL5804, BL5805 and two of (BL5821, BL5822, BL5823, BL5824, BL5825)

#### MSc:

120 credits as for the Postgraduate Diploma plus BL5899.

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory Module for all levels:

| BL4801 Aquaculture and Fisheries  |   |               |                  |                   |
|---|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 10 | <b>Semester:</b> | Distance Learning |
| <b>Availability restrictions:</b>   | Not available to undergraduate students   |               |                  |                   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |                   |
| This module provides an introduction to the global importance of aquaculture with fisheries industries worldwide. The module will compare both aquaculture and fishing industries with terrestrial, agricultural sources of food production. The global markets |   |               |                  |                   |
| <b>Programme module type:</b>   | Compulsory for all Sustainable Aquaculture Postgraduate Programmes.   |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Distance Learning : 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks) |               |                  |                   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |                   |
| <b>Module Co-ordinator:</b>   | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J A David  |               |                  |                   |

**Compulsory Modules for Certificate level:**

| BL4803 Biology for Aquaculture - Invertebrates   |   |               |                  |                   |
|--|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 10 | <b>Semester:</b> | Distance Learning |
| <b>Availability restrictions:</b>  | Not available to Undergraduate students   |               |                  |                   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |                   |
| This module provides an understanding of the fundamental biology of invertebrate aquaculture species. This includes the anatomy and physiology of appropriate aquaculture species. The interaction of aquaculture species with the aquatic environment and the |   |               |                  |                   |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Certificate in Sustainable Aquaculture (invertebrates).<br>Either BL4802 or (BL4803 and BL4804) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes |               |                  |                   |
| <b>Anti-requisite(s):</b>  | BL4802  |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).  |               |                  |                   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J A David  |               |                  |                   |

| BL4804 Biology for Aquaculture - Vertebrates  |  |               |                  |                   |
|---|--|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 10 | <b>Semester:</b> | Distance Learning |
| <b>Availability restrictions:</b>   | Not available to undergraduate students  |               |                  |                   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |                   |
| This module provides an understanding of the fundamental biology of vertebrate aquaculture species. This includes the anatomy and physiology of appropriate aquaculture species. The interaction of aquaculture species with the aquatic environment and the re |  |               |                  |                   |
| <b>Programme module type:</b>   | Compulsory for Postgraduate Certificate in Sustainable Aquaculture (vertebrates)<br>Either BL4802 or (BL4803 and BL4804) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes |               |                  |                   |
| <b>Anti-requisite(s):</b>   | BL4802   |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks), and 3 hours of tutorials (x 3 weeks).  |               |                  |                   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |                   |
| <b>Module Co-ordinator:</b>   | Dr N Hazon   |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J A David   |               |                  |                   |

## Biology - Sustainable Aquaculture - Cert, Diploma & MSc - 2015/6 - November 2015

| BL5806 Nutrition - Invertebrates   |   |               |                  |                   |
|--|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |                   |
| This module provides advanced knowledge of the anatomy, physiology and nutritional requirements of key invertebrate species and a critical assessment of the sustainability of feed production technology. It will also assess and discuss the relationship between clinical nutrition and animal health and the importance of nutrition in developing optimal animal welfare. |   |               |                  |                   |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Certificate in Sustainable Aquaculture (Invertebrates).<br>Either BL5801 or (BL5806 and BL5807) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes |               |                  |                   |
| <b>Anti-requisite(s):</b>  | BL5801  |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).  |               |                  |                   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J A David  |               |                  |                   |

| BL5807 Nutrition - Vertebrates   |   |               |                  |                   |
|--|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |                   |
| This module provides advanced knowledge of the anatomy, physiology and nutritional requirements of key vertebrate species and a critical assessment of the sustainability of feed production technology. It will also assess and discuss the relationship between clinical nutrition and animal health and the importance of nutrition in developing optimal animal welfare. |   |               |                  |                   |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Certificate in Sustainable Aquaculture (Vertebrates).<br>Either BL5801 or (BL5806 and BL5807) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes |               |                  |                   |
| <b>Anti-requisite(s):</b>  | BL5801  |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).  |               |                  |                   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J A David  |               |                  |                   |

## Biology - Sustainable Aquaculture - Cert, Diploma & MSc - 2015/6 - November 2015

| BL5808 Health and Disease - Invertebrates   |   |               |                  |                   |
|---|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |                   |
| <p>This module provides advanced knowledge of the factors that influence disease processes in cultured invertebrate species including viral, bacterial, parasitic and non-infectious disease. The wide range of specific causes of disease and pathology in farmed species will be discussed and the importance of operations and management on the development and impact of disease in optimising welfare and developing sustainable and ethical aquaculture practices will be assessed critically.</p> |   |               |                  |                   |
| <b>Programme module type:</b>   | Compulsory for Postgraduate Certificate in Sustainable Aquaculture (Invertebrates).<br>Either BL5803 or (BL5808 and BL5809) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes |               |                  |                   |
| <b>Anti-requisite(s):</b>   | BL5803  |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).  |               |                  |                   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |                   |
| <b>Module Co-ordinator:</b>   | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J A David  |               |                  |                   |

| BL5809 Health and Disease - Vertebrates  |   |               |                  |                   |
|--|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |                   |
| <p>This module provides advanced knowledge of the factors that influence disease processes in cultured fish species including viral, bacterial, parasitic and non-infectious disease. The wide range of specific causes of disease and pathology in farmed species will be discussed and the importance of operations and management on the development and impact of disease in optimising fish welfare and developing sustainable and ethical aquaculture practices will be assessed critically.</p> |   |               |                  |                   |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Certificate in Sustainable Aquaculture (Vertebrates).<br>Either BL5803 or (BL5808 and BL5809) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes |               |                  |                   |
| <b>Anti-requisite(s):</b>  | BL5803  |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).  |               |                  |                   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J A David  |               |                  |                   |

**Compulsory modules for Postgraduate Diploma and MSc level, Optional for Postgraduate Certificate level:**

| <b>BL5802 Management, Husbandry and Sustainability</b>   |   |               |                  |                   |
|--|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |                   |
| This module provides advanced knowledge of production management and business management of modern aquaculture practices. Environmental, social and economic sustainability of aquaculture depends on an understanding of the interactions of differing but complementary management structures. |   |               |                  |                   |
| <b>Programme module type:</b>  | Compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes.<br>Optional for both Sustainable Aquaculture Postgraduate Certificates. |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).  |               |                  |                   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr JA David   |               |                  |                   |

| <b>BL5804 Markets, Products, Processing and Food Safety</b>  |   |               |                  |                   |
|--|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |                   |
| This module provides advanced knowledge of aquaculture markets, products, processing and food safety. Understanding the processes of ensuring the safety and quality of aquaculture products is central to establishing efficient and sustainable aquaculture practices. |   |               |                  |                   |
| <b>Programme module type:</b>  | Compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes.<br>Optional for both Sustainable Aquaculture Postgraduate Certificates. |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).  |               |                  |                   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Wadsworth  |               |                  |                   |

## Biology - Sustainable Aquaculture - Cert, Diploma & MSc - 2015/6 - November 2015

| BL5805 Local and Global Impacts of Aquaculture  |   |               |                  |                   |
|---|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |                   |
| This module provides advanced knowledge of the environmental impact of aquaculture practices on both local and global scales. Understanding the environmental impact of aquaculture practices is central to improving and developing sustainable aquaculture. |   |               |                  |                   |
| <b>Programme module type:</b>   | Compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes.<br>Optional for both Sustainable Aquaculture Postgraduate Certificates. |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).  |               |                  |                   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%  |               |                  |                   |
| <b>Module Co-ordinator:</b>   | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J A David  |               |                  |                   |

### Compulsory modules for Postgraduate Diploma and MSc Level:

| BL4802 Biology for Aquaculture   |   |               |                  |                   |
|--|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 10 | <b>Semester:</b> | Distance Learning |
| <b>Availability restrictions:</b>  | Not available to undergraduate students   |               |                  |                   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |                   |
| This module provides an understanding of the fundamental biology of aquaculture species. This includes the anatomy and physiology of both invertebrate and vertebrate aquaculture species. The interaction of aquaculture species with the aquatic environment |   |               |                  |                   |
| <b>Programme module type:</b>  | Either BL4802 or (BL4803 and BL4804) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes. |               |                  |                   |
| <b>Anti-requisite(s):</b>  | BL4803 and BL4804   |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Distance learning: 1 x 2-hour lecture (x 10 weeks) and 1 x 3-hour tutorial (x 10 weeks)          |               |                  |                   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J A David  |               |                  |                   |



## Biology - Sustainable Aquaculture - Cert, Diploma & MSc - 2015/6 - November 2015

| BL5801 Nutrition for Aquaculture   |   |               |                  |                   |
|--|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |                   |
| <p>This module provides advanced knowledge of the anatomy, physiology and nutritional requirements of key fish and invertebrate species and a critical assessment of the sustainability of feed production technology. It will also assess and discuss the relationship between clinical nutrition and fish health, the role of microbiota in fish nutrition and the importance of nutrition in developing optimal animal welfare.</p> |   |               |                  |                   |
| <b>Programme module type:</b>  | Either BL5801 or (BL5806 and BL5807) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes. |               |                  |                   |
| <b>Anti-requisite(s):</b>  | BL5806 and BL5807   |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact :</b> Distance learning: 1 x 2-hour lecture (x 10 weeks) and 1 x 3-hour tutorial (x 10 weeks)         |               |                  |                   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Wadsworth  |               |                  |                   |

| BL5803 Health and Disease  |   |               |                  |                   |
|--|---|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |                   |
| <p>This module provides advanced knowledge of the factors that influence disease processes in cultured fish and invertebrates including viral, bacterial, parasitic and non-infectious disease. The wide range of specific causes of disease and pathology in farmed species will be discussed and the importance of operations and management on the development and impact of disease in optimising fish welfare and developing sustainable and ethical aquaculture practices will be assessed critically.</p> |   |               |                  |                   |
| <b>Programme module type:</b>  | Either BL5803 or (BL5808 and BL5809) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes. |               |                  |                   |
| <b>Anti-requisite(s):</b>  | BL5808 and BL5809   |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact :</b> Distance learning: 1 x 2-hour lecture (x 10 weeks) and 1 x 3-hour tutorial (x 10 weeks)         |               |                  |                   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J A David  |               |                  |                   |

**Compulsory module for MSc Level:**

| BL5899 Sustainable Aquaculture Research Dissertation   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| The research dissertation will involve the study of a defined problem within the field of Sustainable Aquaculture. Students will be required to collate and analyse data and to discuss their results in the light of existing literature. In some cases, projects might also involve the design of experiments or the gathering of data. Each project will be written up in the form of a thesis. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Postgraduate MSc in Sustainable Aquaculture. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision               |               |                  |            |
| <b>Assessment pattern:</b>   | Dissertation of up to 15,000 words = 100%                   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr N Hazon  |               |                  |            |

**Optional modules for Postgraduate Diploma and MSc Level:**

| <b>BL5821 Breeding and Genetics</b>  |  |               |                  |                   |
|--|--|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |                   |
| This module provides advanced knowledge of selective breeding programmes and modern genetic techniques applied in aquaculture practices. Scientific and ethical issues raised by the application of genetic engineering will be examined with the context of developing sustainable aquaculture. |  |               |                  |                   |
| <b>Programme module type:</b>  | Optional for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes.                |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks). |               |                  |                   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon   |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J A David, Prof K Rana  |               |                  |                   |

| <b>BL5822 Advanced Welfare and Ethics</b>   |  |               |                  |                   |
|---|--|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |                   |
| This module provides advanced knowledge of the welfare and ethical issues raised by current aquaculture practices. Animal welfare is rapidly developing as a major ethical issue within all areas of food production including aquaculture. Future development of sustainable aquaculture must incorporate ethical practices, optimising animal welfare and as a consequence improving the final product. |  |               |                  |                   |
| <b>Programme module type:</b>   | Optional for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes.                |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks). |               |                  |                   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |                   |
| <b>Module Co-ordinator:</b>   | Dr N Hazon   |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J A David   |               |                  |                   |

| <b>BL5823 Recirculation Aquaculture Systems</b>  |  |               |                  |                   |
|--|--|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |                   |
| This module provides advanced knowledge of the use of recirculating aquaculture systems in modern aquaculture practices. Recirculating aquaculture systems potentially provide environmentally sustainable aquaculture practices but must be assessed and viewed within the context of ethical, financial and social components of sustainability. |  |               |                  |                   |
| <b>Programme module type:</b>  | Optional for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes.                |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks). |               |                  |                   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon   |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J A David   |               |                  |                   |

## Biology - Sustainable Aquaculture - Cert, Diploma & MSc - 2015/6 - November 2015

| BL5824 Ornamental and Aquaria Production   |  |               |                  |                   |
|--|--|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |                   |
| <p>This module provides advanced knowledge of animals produced by the ornamental and aquaria section of the aquaculture business. This sector of the aquaculture business has specific issues with relation to establishing sustainable aquaculture practices. In particular, the sustainability and ethical issues with reference to both captive breeding systems and wild caught fish supply will be examined and assessed for different trade sectors.</p> |  |               |                  |                   |
| <b>Programme module type:</b>  | Optional for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes.                |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks). |               |                  |                   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |                   |
| <b>Module Co-ordinator:</b>  | Dr N Hazon   |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J A David , Prof K Rana   |               |                  |                   |

| BL5825 Larval Rearing   |  |               |                  |                   |
|---|--|---------------|------------------|-------------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Distance Learning |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |                   |
| <p>This module provides advanced knowledge of the larval production techniques used in the aquaculture business. Larval production is often the rate limited step in development of new aquaculture species and presents particular ethical and sustainability issues with regard to current production techniques.</p> |  |               |                  |                   |
| <b>Programme module type:</b>   | Optional for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes.                |               |                  |                   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks). |               |                  |                   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |                   |
| <b>Module Co-ordinator:</b>   | Dr N Hazon   |               |                  |                   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J A David   |               |                  |                   |

## School of Chemistry

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **MSc:**

**Chemical Science** ([link](#))

#### **MPhil:**

**Chemistry** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Chemical Science

### Programme Requirements

#### Taught Element:

40 credits: CH5821 and CH5831 and CH5832;

80 credits chosen, with the approval of the Programme Director, from:

(CH3621 or CH3721), (CH4514 or CH4614), Except where these modules have been previously passed as an undergraduate, CH5461 (except that CH5461 may not be taken by a student who has previously passed CH4461 as an undergraduate), CH5511, CH5516, CH5517, CH5518, CH5611, CH5612, CH5613, CH5614, CH5616, CH5711, CH5713, CH5714, CH5715, CH5716, CH5717

#### MSc:

120 credits from the Taught Element plus CH5841.

### Compulsory modules:

| CH5821 Research Skills in Chemistry   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.                                   |               |                  |   |
| This module involves gaining familiarity and expertise in specialised research techniques in the Chemical Sciences appropriate to the prospective Research Project. These will vary considerably according to the chosen area but may include running a computer modelling calculation, operation of spectrometers, diffractometers and similar instruments, searching for data in the chemical literature, manipulation of air-sensitive materials, conducting a high-pressure reaction etc. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Chemical Science MSc.              |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 7 hours of practical work. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework (5 laboratory reports) = 100%          |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Kilian                                       |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | all staff   |               |                  |   |

| CH5831 Literature Review for MSc   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module which forms part of the MSc programme in Chemical Science involves an in-depth survey of the published literature within a specified research area which is related to the prospective research project. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Chemical Science MSc   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 5 x 1-hour consultation and feedback sessions with supervisor over the semester. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework (~4,000-word Literature Review)= 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr P Kilian   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | all staff   |               |                  |   |

## Chemistry - PG Chemical Science 2015/6 - Novmeber 2015

| CH5832 Contemporary Research Awareness   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| This module which forms part of the MSc programme in Chemical Science is based on Research Colloquia and Seminars delivered by external speakers and covering the whole range of areas within current chemical science research. Assessment is by two essays to be based on selected lecture(s) and additional reading, one to be submitted at the end of each semester. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Chemical Science MSc.                          |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 20 hours in total over the whole year. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (2 x 3,000-word essays) = 100%                     |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr P Kilian   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   |   |               |                  |            |

| CH5841 Research Project for MSc   |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |        |
| The research project for MSc aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project is supervised by a member of the academic staff. The project topic and aims will be selected by both supervisor and student and a related literature survey will be carried out in module CH5831. |   |               |                  |        |
| <b>Programme module type:</b>   | Compulsory for Chemical Science MSc.                                  |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 30 hours of practical classes (research work). |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr P Kilian   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | all staff   |               |                  |        |

## Optional modules:

| CH3621 Organic Chemistry Laboratory  |   |              |                  |   |
|--|---|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 9 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 9.00 am - 12.00 noon or 1.00 pm Mon to Fri (Weeks 1-5)  |              |                  |   |
| Practical experiments involving synthesis, characterisation and measurements in organic chemistry. |   |              |                  |   |
| <b>Programme module type:</b>  | Optional for MSc Chemical Science   |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Daily 3- or 4-hour morning practical classes over 5 weeks (Weeks 1-5). |              |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |              |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M L Clarke   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M L Clarke, Dr I A Smellie   |              |                  |   |

| CH3721 Physical Chemistry Laboratory  |  |              |                  |   |
|---|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 9 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 9.00 am - 12.00 noon or 1.00 pm Mon to Fri (Weeks 6-10)  |              |                  |   |
| This module comprises practical experiments involving physical measurements and the use of computational programmes in Chemistry. |  |              |                  |   |
| <b>Programme module type:</b>   | Optional for MSc Chemical Science  |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Daily 3- or 4-hour morning practical classes over 5 weeks (Weeks 6-10). |              |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |              |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P A Wright  |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof P A Wright, Prof M Buck, Dr R Schaub, Dr T van Mourik, Prof M Buehl                       |              |                  |   |

| CH4514 Advanced Metal Chemistry  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the heavier d-block and f-block metals and also the theory behind bonding, magnetism and electronic spectroscopy in d-block metal complexes. At the end of the module students should be in a position to understand fully the nature of bonding in d- and f-block metal systems, to understand the electronic spectra of d-block complexes and to rationalise trends in chemical properties both down and across the periodic table. The module also aims to explore the role played by inorganic systems in biology and their growing importance in medicine. There will also be discussion of the mechanisms of action of some inorganic systems in biology. |  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B E Bode  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Zysman-Colman, Dr B E Bode  |               |                  |   |



| CH4614 Heterocyclic and Pericyclic Chemistry  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module covers the important areas of heterocyclic and pericyclic chemistry in detail. In heterocyclic chemistry, the nomenclature and numbering of single and fused ring systems, and structure, reactivity, synthesis and applications of the main five and six-membered ring systems with one and two heteroatoms will be covered. Selected industrial syntheses of heterocyclic medicinal compounds are used to illustrate the basic principles as well as the factors to be considered in large scale synthesis. In pericyclic chemistry, a frontier molecular orbital approach based on the Woodward-Hoffmann rules will be applied to pericyclic reactions and used to provide an understanding of the energetics and stereochemistry of Diels-Alder and 1,3-dipolar cycloaddition reactions as well as electrocyclic processes and sigmatropic rearrangements. Synthetic applications of these processes will also be illustrated.</p> |  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total, plus a half-day site visit. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R A Aitken  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R A Aitken, Dr E R Kay  |               |                  |   |

| CH5461 Integrating Chemistry   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This is a general chemistry module aimed at developing and consolidating fundamental aspects of basic understanding. Students will be encouraged to gain a deeper understanding of elementary core material by a combination of discussion, general reading, essay work and problem solving at a more advanced level than previously required. Students will be expected to read externally on related topics. In addition, each student will be required to submit an essay which will be on a topic relevant to the broader issues of chemical study and knowledge. The problems will apply the knowledge gained in Level 2000 Chemistry modules.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc (unless CH4461 has been previously passed).            |               |                  |   |
| <b>Anti-requisite(s):</b>  | CH4461  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 classes per week over 9 weeks (Weeks 3-11) and a total of 3 x 1-hour seminars. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr F D Morrison   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | all staff   |               |                  |   |

**CH5511 Homogeneous Catalysis**

|   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module discusses the use of metal based systems in organic transformations and a detailed treatment of homogeneous catalysis. Important processes in the petrochemicals industry will be used to exemplify the principles described. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P C J Kamer   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof P C J Kamer, Prof R P Tooze   |               |                  |   |

**CH5516 Advanced Ligand Design**

|   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| Phosphines and carbenes represent the most common ligands used in many applications of metal complexes. Recent developments have allowed very precise design of properties of complexes as a result of new ligand design. In this module design principles will be addressed and applications of these important complexes in industry will be discussed. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C S J Cazin   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof P C J Kamer, Dr C S J Cazin   |               |                  |   |

**CH5517 Advanced Molecular Inorganic Chemistry**

|  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module involves three sections: advanced discussion of the properties of selected main group compounds, spectroscopy and magnetism of transition metal complexes, and molecular modeling applied to transition metal complexes. |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Zysman-Colman   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Zysman-Colman, Dr B Bode  |               |                  |   |

## Chemistry - PG Chemical Science 2015/6 - Novmeber 2015

| CH5518 Blockbuster Solids   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module covers two major topics. The first deals with modern materials which have a major impact on our lives, focusing on how the material's structure influences its electrical, magnetic and thermal properties. In the second section, emphasis will be placed on metal organic frameworks and how they can be used for the storage and release of gases. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P Lightfoot   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof P Lightfoot, Prof R E Morris  |               |                  |   |

| CH5611 Asymmetric Synthesis  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module discusses the methods available for the synthesis of chiral compounds. After a detailed introduction to the specialised terminology and analytical methods used, the main methods using chiral auxiliaries, chiral reagents and chiral catalysts will be described. This will then be combined with a consideration of synthetic strategy and total syntheses of several complex chiral compounds will be discussed. |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M L Clarke  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M L Clarke, Prof A D Smith  |               |                  |   |

| CH5612 Natural Products, Biosynthesis and Enzyme Co-factors   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The module will investigate the biosynthesis of the main natural products groups (polyketides, terpenes, alkaloids). Unifying features of their structures and biosynthesis will be described and methods for studying the biosynthesis of natural products will be taught (isotope tracer methods). The common enzyme co-factors (PLP, TPP, NADH, co-enzyme B12) will be highlighted and their mechanistic role in mediating enzymatic transformations will be explored. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof D O'Hagan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof D O'Hagan, Prof T K Smith, Dr G J Florence  |               |                  |   |

| CH5613 Reactive Intermediates   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| Aspects of the organic chemistry of the most important reactive intermediates viz.: carbo-cations, carbanions, free radicals, carbenes, nitrenes and arynes will be covered. Means of generating each type of reactive intermediate will be introduced. The key reactions of each intermediate will be reviewed and their characteristic reactions highlighted. An understanding of the use of each species in organic synthesis and of their significance in mechanistic analysis will be developed. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R A Aitken  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R A Aitken, Dr I A Smellie  |               |                  |   |

| CH5614 Chemical Biology   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module will examine new methodologies for drug discovery. An overview of the processes of target discovery, lead discovery and lead optimisation will be given. The use of structural biology (protein crystallography, NMR), computational chemistry and combinatorial chemistry in 'rational drug design' will be described. The module will look at the technologies behind combinatorial library design, synthesis and high throughput screening. Broad and focused libraries will be discussed. Several examples will be explored, such as the development of drugs against AIDS and influenza. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof J H Naismith  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof J H Naismith, Prof N J Westwood   |               |                  |   |

## Chemistry - PG Chemical Science 2015/6 - Novmeber 2015

| CH5616 Molecular Recognition   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module offers a systematic introductory treatment of molecular recognition, emphasising fundamental concepts of intermolecular interactions and molecular recognition in solution. The nature, strength and directionality of orbital, hydrogen-bonding and hydrophobic interactions will be explored. Spectroscopic and other techniques for studying these interactions will be outlined with examples. |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof D Philp   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof D Philp, Dr E R Kay   |               |                  |   |

| CH5711 Advanced Spectroscopic Methods   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module describes the importance of more advanced spectroscopic methods for the elucidation of structure and properties of increasingly complex molecules and materials. Particular attention will be paid to those techniques which exploit synchrotron radiation. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials per week. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C J Baddeley  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C J Baddeley, Dr G Haehner  |               |                  |   |

| CH5713 Surface Science and Heterogeneous Catalysis   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module describes the Chemistry of solid surfaces with particular reference to the structure of metal, oxide and semiconductor surfaces. The techniques available to characterise the uppermost atomic layers of a solid are presented and the novel reactivity of surfaces is linked to applications in sensors, electronic devices, heterogeneous catalysis as well as the processes of corrosion, friction and wear. |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C J Baddeley  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C J Baddeley, Prof P A Wright   |               |                  |   |

**CH5714 Chemical Applications of Electronic Structure Calculations**

|  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module will build on the foundations laid in CH2701 and CH3712 and introduce further aspects and methods of modern computational chemistry related to the electronic structures of atoms and molecules. It will be shown how results of such calculations can be used to complement, interpret, and guide experiments in many areas of chemistry. |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J B O Mitchell  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J B O Mitchell, Dr T van Mourik   |               |                  |   |

**CH5715 Energy Conversion and Storage**

|   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| In our efforts to mitigate global warming it is essential to develop new and improved methods of generation and storage of energy. Foremost among these methods are the electrochemical technologies of batteries and fuel cells. In this module we will discuss the technical details and applications of such devices. Particular emphasis will be placed on the underlying electrochemistry and materials chemistry. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate – Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Anti-requisite(s):</b>   | CH4712   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-Hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R T Baker   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R T Baker, Prof J T S Irvine  |               |                  |   |

| CH5716 Processing of Materials   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module focuses on the processing of materials. Fundamental materials properties such as crystallinity, composition, crystal phase, phase mixing, domain structure, grains and grain boundaries, porosity and pore structure will be covered and the main methods used to control these properties in order to develop and improve materials for specific applications will be addressed. Processes including casting, extrusion, physical and chemical vapour deposition, calcination, sintering, annealing, plasma treatments, mechanical working, crystallisation and dopant addition will be described and explained. Applications in high-value metals, ceramics and semiconductor materials will be emphasised.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J T S Irvine  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J T S Irvine, Dr M Cassidy  |               |                  |   |

| CH5717 Nanostructured Materials   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module will introduce the concepts and science behind the design and synthesis of a wide range of nanostructures and the application of these structures in functional materials and devices. The relationship between nanoscale structure and composition and macroscale properties and behaviour will be emphasised. Structures will be classified and introduced in terms of their number of dimensions: clusters, nanoparticles and quantum dots (0-D); nanotubes, nanowires and nanorods (1-D); nanosheets and films (2-D); and porous crystals, mesoporous structures and metal-organic frameworks (3-D). Other specific topics will include the science of clusters, molecular assemblies and assemblies of nanostructures. Novel carbon based materials, including simple and functionalised fullerenes, carbon nanotubes and graphene and related materials will be described and their physical and chemical properties related to their structure and bonding. Advanced characterisation techniques and applications related to nanotechnology, MEMs, biomaterials, catalysis, and optical and magnetic devices will be addressed.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof W Zhou  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof W Zhou, Prof M Buck   |               |                  |   |

## MPhil in Chemistry

### Programme Requirements

#### MPhil:

CH5442 and 60 credits chosen, with the approval of the Director of Teaching from the following: CH4461, CH4514, CH4515, CH4612, CH4614, CH4615, CH4713, CH4714, CH4715, CH5511, CH5516, CH5517, CH5518, CH5611, CH5612, CH5613, CH5614, CH5616, CH5711, CH5713, CH5714, CH5715, CH5716, CH5717.

### Compulsory module:

| CH5442 Chemistry Research Project for First Year MPhil   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| The research project for MPhil only aims to develop the students' skills in the following areas: experimental design and problem-solving; abstraction, evaluation and interpretation of data in the chemical literature; practical skills and teamwork; communication of results orally and in a dissertation. The project will be selected and supervised by a member of the academic staff. It will contain a significant literature survey. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Chemistry MPhil.  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 540 hours spread over both semesters and summer vacation. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr P Kilian  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | all staff  |               |                  |            |



## Optional modules:

| CH4461 Integrating Chemistry   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This is a general chemistry module aimed at developing and consolidating fundamental aspects of basic understanding. Students will be encouraged to gain a deeper understanding of elementary core material by a combination of discussion, general reading, essay work and problem solving at a more advanced level than previously required. Students will be expected to read externally on related topics. In addition, each student will be required to submit an essay which will be on a topic relevant to the broader issues of chemical study and knowledge. The problems will apply the knowledge gained in Level 2000 Chemistry modules.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Chemistry MPhil.  |               |                  |   |
| <b>Anti-requisite(s):</b>  | CH5461   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 classes per week over 9 weeks (Weeks 3-11) and a total of 3 x 1-hour seminars |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Schaub  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | all staff  |               |                  |   |

| CH4514 Advanced Metal Chemistry   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module covers the heavier d-block and f-block metals and also the theory behind bonding, magnetism and electronic spectroscopy in d-block metal complexes. At the end of the module students should be in a position to understand fully the nature of bonding in d- and f-block metal systems, to understand the electronic spectra of d-block complexes and to rationalise trends in chemical properties both down and across the periodic table. The module also aims to explore the role played by inorganic systems in biology and their growing importance in medicine. There will also be discussion of the mechanisms of action of some inorganic systems in biology.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B E Bode  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Zysman-Colman, Dr B E Bode  |               |                  |   |

| CH4515 Advanced Main Group Chemistry  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module discusses the importance of and structural similarities between rings, cages and clusters particularly in main group chemistry. The general rules for predicting geometry in cage/cluster systems will be introduced and used to provide a framework for the range of systems to be discussed e.g. boranes, Zintl anions, phosphides. Further advanced topics in s and p block chemistry will be introduced, for example the stabilisation of heavier main group multiple bonds, low coordinate main group element centres, biradicaloids and use of weakly coordinating anions.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Chemistry MPhil.  |               |                  |   |
| <b>Anti-requisite(s):</b>   | CH5513   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Kilian  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr P Kilian  |               |                  |   |

| CH4612 Blockbuster Pharmaceuticals   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module will discuss case studies from the most successful pharmaceutical products. How the compounds came to be discovered, what diseases they are targeting, how they work and how they are made and delivered to the market. Compounds that will feature are aspirin, penicillin, AZT, 5-flourouracil, Zantac, viagra, <math>\beta</math>-blockers, prozac etc.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Chemistry MPhil.  |               |                  |   |
| <b>Anti-requisite(s):</b>  | CH5615   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total, plus a half day site visit. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof D O'Hagan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof D O'Hagan and visiting industrial lecturers   |               |                  |   |

## Chemistry - MPhil in Chemistry - 2015/6 - November 2015

| CH4614 Heterocyclic and Pericyclic Chemistry  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module covers the important areas of heterocyclic and pericyclic chemistry in detail. In heterocyclic chemistry, the nomenclature and numbering of single and fused ring systems, and structure, reactivity, synthesis and applications of the main five and six-membered ring systems with one and two heteroatoms will be covered. Selected industrial syntheses of heterocyclic medicinal compounds are used to illustrate the basic principles as well as the factors to be considered in large scale synthesis. In pericyclic chemistry, a frontier molecular orbital approach based on the Woodward-Hoffmann rules will be applied to pericyclic reactions and used to provide an understanding of the energetics and stereochemistry of Diels-Alder and 1,3-dipolar cycloaddition reactions as well as electrocyclic processes and sigmatropic rearrangements. Synthetic applications of these processes will also be illustrated.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Chemistry MPhil.  |               |                  |   |
| <b>Anti-requisite(s):</b>   | CH4611, CH4451, CH4456   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total, plus a half-day site visit. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R A Aitken  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R A Aitken, Dr E R Kay  |               |                  |   |

| CH4615 Fragrance, Food and Colour Chemistry   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module considers three areas where applications of organic chemistry have been able to benefit society and given rise to important industries. The fragrance, perfumery and food flavouring industry will be covered from the early extraction of essential oils to the modern marketplace with an overview of the key structural features required for perfumes and flavours and some major manufacturing processes. The chemical constituents of food will be considered with an emphasis on health effects and the molecular mechanism of antioxidants, vitamins and other food constituents. The chemistry of organic dyes and pigments will be discussed including the historical development of colour compounds and how these affected society and art. Coloured compounds in nature will also be discussed.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Chemistry MPhil.   |               |                  |   |
| <b>Anti-requisite(s):</b>   | CH4613  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R A Aitken   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R A Aitken, Dr R J M Goss, Prof T K Smith  |               |                  |   |

**CH4713 Interactions of Light with Matter**

|   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module describes the fascinating properties of matter relevant to their interaction with electromagnetic radiation. Absorption, transmission, reflection and diffraction of light across the electromagnetic spectrum is covered. The properties of matter, particularly in the gas and solid phases, which are important for the emission, modification and transport of light are discussed at the atomic and molecular level. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R Schaub  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof S E M Ashbrook, Dr R Schaub   |               |                  |   |

**CH4714 Conductivity, Electrochemical Processes and the Structure of Polymers**

|  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers electrolyte solutions and ionic conductivity, equilibrium electrochemistry and electrode processes, and, the synthesis, classification and structure of polymers. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Chemistry MPhil.  |               |                  |   |
| <b>Anti-requisite(s):</b>  | CH4451, CH4454, CH4711   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr F M Gray  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr F M Gray, Prof M Buck   |               |                  |   |

**CH4715 Functional Materials and Electrons in Solids**

|  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module introduces the physical concepts of dielectrics, semiconductors, and metals. Electronic properties of interfaces and thin films which are fundamental to devices such as microprocessors, lasers in CD players, or solar cells will be discussed. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Chemistry MPhil.  |               |                  |   |
| <b>Anti-requisite(s):</b>  | CH5712   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr F D Morrison  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr F D Morrison, Prof M Buck   |               |                  |   |

## Chemistry - MPhil in Chemistry - 2015/6 - November 2015

| CH5511 Homogeneous Catalysis  |  |               |           |   |
|---|--|---------------|-----------|---|
| SCOTCAT Credits:  | 10   | SCQF Level 11 | Semester: | 1 |
| Planned timetable:  | To be arranged.  |               |           |   |
| This module discusses the use of metal based systems in organic transformations and a detailed treatment of homogeneous catalysis. Important processes in the petrochemicals industry will be used to exemplify the principles described. |  |               |           |   |
| Programme module type:  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |           |   |
| Learning and teaching methods and delivery:   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |           |   |
| Assessment pattern:   | 2-hour Written Examination = 100%  |               |           |   |
| Module Co-ordinator:  | Prof P C J Kamer   |               |           |   |
| Lecturer(s)/Tutor(s):   | Prof P C J Kamer, Prof R P Tooze   |               |           |   |

| CH5516 Advanced Ligand Design   |  |               |           |   |
|---|--|---------------|-----------|---|
| SCOTCAT Credits:  | 10   | SCQF Level 11 | Semester: | 2 |
| Planned timetable:  | To be arranged.  |               |           |   |
| Phosphines and carbenes represent the most common ligands used in many applications of metal complexes. Recent developments have allowed very precise design of properties of complexes as a result of new ligand design. In this module design principles will be addressed and applications of these important complexes in industry will be discussed. |  |               |           |   |
| Programme module type:  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |           |   |
| Learning and teaching methods and delivery:   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |           |   |
| Assessment pattern:   | 2-hour Written Examination = 100%  |               |           |   |
| Module Co-ordinator:  | Dr C S J Cazin   |               |           |   |
| Lecturer(s)/Tutor(s):   | Prof P C J Kamer, Dr C S J Cazin   |               |           |   |

| CH5517 Advanced Molecular Inorganic Chemistry  |  |               |           |   |
|--|--|---------------|-----------|---|
| SCOTCAT Credits:   | 10   | SCQF Level 11 | Semester: | 2 |
| Planned timetable:   | To be arranged.  |               |           |   |
| This module involves three sections: advanced discussion of the properties of selected main group compounds, spectroscopy and magnetism of transition metal complexes, and molecular modeling applied to transition metal complexes. |  |               |           |   |
| Programme module type:   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |           |   |
| Learning and teaching methods and delivery:  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |           |   |
| Assessment pattern:  | 2-hour Written Examination = 100%  |               |           |   |
| Module Co-ordinator:   | Dr E Zysman-Colman   |               |           |   |
| Lecturer(s)/Tutor(s):  | Dr E Zysman-Colman, Dr B Bode  |               |           |   |

| CH5518 Blockbuster Solids   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module covers two major topics. The first deals with modern materials which have a major impact on our lives, focusing on how the material's structure influences its electrical, magnetic and thermal properties. In the second section, emphasis will be placed on metal organic frameworks and how they can be used for the storage and release of gases. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P Lightfoot   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof P Lightfoot, Prof R E Morris  |               |                  |   |

| CH5611 Asymmetric Synthesis  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module discusses the methods available for the synthesis of chiral compounds. After a detailed introduction to the specialised terminology and analytical methods used, the main methods using chiral auxiliaries, chiral reagents and chiral catalysts will be described. This will then be combined with a consideration of synthetic strategy and total syntheses of several complex chiral compounds will be discussed. |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M L Clarke  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M L Clarke, Prof A D Smith  |               |                  |   |

| CH5612 Natural Products, Biosynthesis and Enzyme Co-factors   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The module will investigate the biosynthesis of the main natural products groups (polyketides, terpenes, alkaloids). Unifying features of their structures and biosynthesis will be described and methods for studying the biosynthesis of natural products will be taught (isotope tracer methods). The common enzyme co-factors (PLP, TPP, NADH, co-enzyme B12) will be highlighted and their mechanistic role in mediating enzymatic transformations will be explored. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof D O'Hagan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof D O'Hagan, Prof T K Smith, Dr G J Florence  |               |                  |   |

## Chemistry - MPhil in Chemistry - 2015/6 - November 2015

| CH5613 Reactive Intermediates   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| Aspects of the organic chemistry of the most important reactive intermediates viz.: carbo-cations, carbanions, free radicals, carbenes, nitrenes and arynes will be covered. Means of generating each type of reactive intermediate will be introduced. The key reactions of each intermediate will be reviewed and their characteristic reactions highlighted. An understanding of the use of each species in organic synthesis and of their significance in mechanistic analysis will be developed. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R A Aitken  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R A Aitken, Dr I A Smellie  |               |                  |   |

| CH5614 Chemical Biology   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module will examine new methodologies for drug discovery. An overview of the processes of target discovery, lead discovery and lead optimisation will be given. The use of structural biology (protein crystallography, NMR), computational chemistry and combinatorial chemistry in 'rational drug design' will be described. The module will look at the technologies behind combinatorial library design, synthesis and high throughput screening. Broad and focused libraries will be discussed. Several examples will be explored, such as the development of drugs against AIDS and influenza. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof J H Naismith  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof J H Naismith, Prof N J Westwood   |               |                  |   |

| CH5616 Molecular Recognition   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module offers a systematic introductory treatment of molecular recognition, emphasising fundamental concepts of intermolecular interactions and molecular recognition in solution. The nature, strength and directionality of orbital, hydrogen-bonding and hydrophobic interactions will be explored. Spectroscopic and other techniques for studying these interactions will be outlined with examples. |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof D Philp   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof D Philp, Dr E R Kay   |               |                  |   |

**CH5711 Advanced Spectroscopic Methods**

|   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module describes the importance of more advanced spectroscopic methods for the elucidation of structure and properties of increasingly complex molecules and materials. Particular attention will be paid to those techniques which exploit synchrotron radiation. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials per week. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C J Baddeley  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C J Baddeley, Dr G Haehner  |               |                  |   |

**CH5713 Surface Science and Heterogeneous Catalysis**

|  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module describes the Chemistry of solid surfaces with particular reference to the structure of metal, oxide and semiconductor surfaces. The techniques available to characterise the uppermost atomic layers of a solid are presented and the novel reactivity of surfaces is linked to applications in sensors, electronic devices, heterogeneous catalysis as well as the processes of corrosion, friction and wear. |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C J Baddeley  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C J Baddeley, Prof P A Wright   |               |                  |   |

**CH5714 Chemical Applications of Electronic Structure Calculations**

|  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module will build on the foundations laid in CH2701 and CH3712 and introduce further aspects and methods of modern computational chemistry related to the electronic structures of atoms and molecules. It will be shown how results of such calculations can be used to complement, interpret, and guide experiments in many areas of chemistry. |  |               |                  |   |
| <b>Programme module type:</b>  | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J B O Mitchell  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J B O Mitchell, Dr T van Mourik   |               |                  |   |



## Chemistry - MPhil in Chemistry - 2015/6 - November 2015

| CH5715 Energy Conversion and Storage  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| In our efforts to mitigate global warming it is essential to develop new and improved methods of generation and storage of energy. Foremost among these methods are the electrochemical technologies of batteries and fuel cells. In this module we will discuss the technical details and applications of such devices. Particular emphasis will be placed on the underlying electrochemistry and materials chemistry. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate – Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Anti-requisite(s):</b>   | CH4712   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-Hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R T Baker   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R T Baker, Prof J T S Irvine  |               |                  |   |

| CH5716 Processing of Materials  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module focuses on the processing of materials. Fundamental materials properties such as crystallinity, composition, crystal phase, phase mixing, domain structure, grains and grain boundaries, porosity and pore structure will be covered and the main methods used to control these properties in order to develop and improve materials for specific applications will be addressed. Processes including casting, extrusion, physical and chemical vapour deposition, calcination, sintering, annealing, plasma treatments, mechanical working, crystallisation and dopant addition will be described and explained. Applications in high-value metals, ceramics and semiconductor materials will be emphasised. |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof J T S Irvine  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof J T S Irvine, Dr M Cassidy  |               |                  |   |

| CH5717 Nanostructured Materials   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module will introduce the concepts and science behind the design and synthesis of a wide range of nanostructures and the application of these structures in functional materials and devices. The relationship between nanoscale structure and composition and macroscale properties and behaviour will be emphasised. Structures will be classified and introduced in terms of their number of dimensions: clusters, nanoparticles and quantum dots (0-D); nanotubes, nanowires and nanorods (1-D); nanosheets and films (2-D); and porous crystals, mesoporous structures and metal-organic frameworks (3-D). Other specific topics will include the science of clusters, molecular assemblies and assemblies of nanostructures. Novel carbon based materials, including simple and functionalised fullerenes, carbon nanotubes and graphene and related materials will be described and their physical and chemical properties related to their structure and bonding. Advanced characterisation techniques and applications related to nanotechnology, MEMs, biomaterials, catalysis, and optical and magnetic devices will be addressed.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Postgraduate - Optional for Chemical Science MSc and Chemistry MPhil.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 3 lectures per week over 9 - 10 weeks (within Weeks 1-11) and 2 - 3 tutorials in total. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof W Zhou  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof W Zhou, Prof M Buck   |               |                  |   |

## School of Classics

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **Postgraduate Diploma:**

*(this is also the Taught element of the MLitt and MPhil programme):*

**Ancient History** [\(link\)](#)

**Classical Studies** [\(link\)](#)

**Greek** [\(link\)](#)

**Greek and Latin** [\(link\)](#)

**Latin** [\(link\)](#)

#### **MLitt:**

**Ancient History** [\(link\)](#)

**Classical Studies** [\(link\)](#)

**Greek** [\(link\)](#)

**Greek and Latin** [\(link\)](#)

**Latin** [\(link\)](#)

#### **MPhil:**

**Ancient History** [\(link\)](#)

**Classical Studies** [\(link\)](#)

**Greek** [\(link\)](#)

**Greek and Latin** [\(link\)](#)

**Latin** [\(link\)](#)

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Ancient History

### Programme Requirements

**Postgraduate Diploma:** *(this is also the Taught Element of the MLitt and MPhil programmes)*

60 credits: AN5001

Either: 60 credits: AN5002 - AN5199 (excluding AN5099)

Or: 30 credits: AN5002 - AN5199 (excluding AN5099)

Plus

40 credits of beginners' language modules i.e. {GK1001 and GK1002} or {LT1001 and LT1002}.

With the permission of the Head of School, 40 credits from the following pairs of modules may be substituted for the beginners' language modules: {GK1005 and GK1006}, {GK2001 and GK2002}, {GK2003 and GK2004}, {LT1003 and LT1004}, {LT2001 and LT2002}, {LT2003 and LT2004}.

With the permission of the relevant Head(s) of School, up to 30 credits may be taken from other programmes taught by the School of Classics or by other Schools.

**MLitt:**

120 - 130 credits as for the Taught Element plus AN5099

**MPhil:**

120 - 130 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| AN5001 Themes and Methods in Ancient History   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| This module will provide an introduction to the research opportunities in Ancient History, with instruction in the skills appropriate to different areas and interests. The topics covered in the module will include both Greek and Roman historiography, economic, social, cultural and religious aspects of the Ancient World, and various modern historiographical approaches. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Ancient History Postgraduate Programme.                                     |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hourly meetings most weeks, plus individual meetings as required. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr A Long  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |            |

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| AN5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Ancient History MLitt Postgraduate Programme |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision               |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Long   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual supervisors assigned as required                 |               |                  |            |

### Optional modules – choose 2:

| AN5004 Integrated Study Abroad (Rome)              |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>                            | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>                  | Students must be accepted by the British School at Rome              |               |                  |   |
| <b>Planned timetable:</b>                          | To be arranged.  |               |                  |   |
| Supervised study at the British School at Rome.    |  |               |                  |   |
| <b>Programme module type:</b>                      | Optional for Ancient History Postgraduate Programme.                 |               |                  |   |
| <b>Learning and teaching methods and delivery:</b> | <b>Weekly contact:</b> Regular seminars, plus 1 major research paper |               |                  |   |
| <b>Assessment pattern:</b>                         | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>                        | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>                       | Staff at the British School at Rome                                  |               |                  |   |

| AN5103 Religion and Society in the Ancient Greek World  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module will examine the role of religious practice and belief in Greek society, from the sixth till the fourth century BCE. It will look at a variety of different cults - from inter-state cults such as Delphi and Olympia, through the level of the polis to family religion - and at a range of different themes: the relationship of religion with politics and polis-ideology, the practice of divination, the belief in the afterlife (among many others). A particular emphasis will be laid on the examination of religious change, placing the sceptical ideas of the fifth century in the context of traditional religious conceptions. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R Anderson   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R Anderson   |               |                  |   |

| AN5137 Tyranny and Kingship in the Ancient Mediterranean  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module spans Mediterranean history from the seventh to the third century BCE, examining autocracy in its many forms. From Tarquinius Superbus in Rome to Pisistratus in Athens; from Dionysius I to the Roman dictators, the module uses a broad historical scale to pose questions about the nature of rulership and the ways in which individuals wielded power in classical times. What was the difference between a basileus and a tyrannos? What did Dionysius of Halicarnassus mean when he referred to the Roman dictatorship as an 'elective tyranny'? How could a notoriously cruel tyrant like Periander of Corinth gain a posthumous reputation as a lawgiver and sage? By examining instances of sole rule through the works of historians (from Herodotus to Livy) and philosophers (from Plato to Cicero), students will gain an understanding of the workings of political power in antiquity, and the ways in which ancient writers have themselves influenced modern formulations of ancient politics.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

| AN5140 Religion and Society in the Roman Empire   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The study of Roman religion has attracted enormous attention in recent years. Traditional topics like the importance of rituals and priesthods, the civic character of ancient religion, and even the impact of the empire on religious life are being revised by recent work. At the same time, issues like the definition of religious identities and the development of networks and other forms of religious integration have been placed centre-stage. The aim of this module is to analyse these developments, through the discussion of case-studies and current historiographic and theoretical debates.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Machado  |               |                  |   |

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| AN5141 The World of Late Antiquity   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The period between 284 and 700 CE was marked by crucial developments that involved the entire Mediterranean World. This module will explore these developments by focusing on different aspects of the history and archaeology of the period, including the relationship between Romans and Barbarians, the rise of Christianity and the affirmation of orthodoxy, the development of new forms of political power, and the issue of social and economic dynamism (or lack thereof). The aim of this module is to provide a comprehensive view of this period, as well as an opportunity for assessing the different types of evidence available to scholars.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Machado  |               |                  |   |

**OR with Head of School permission - one of the following may be substituted:**

| AN5103 Religion and Society in the Ancient Greek World   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine the role of religious practice and belief in Greek society, from the sixth till the fourth century BCE. It will look at a variety of different cults - from inter-state cults such as Delphi and Olympia, through the level of the polis to family religion - and at a range of different themes: the relationship of religion with politics and polis-ideology, the practice of divination, the belief in the afterlife (among many others). A particular emphasis will be laid on the examination of religious change, placing the sceptical ideas of the fifth century in the context of traditional religious conceptions.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Anderson   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Anderson   |               |                  |   |

| AN5137 Tyranny and Kingship in the Ancient Mediterranean  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module spans Mediterranean history from the seventh to the third century BCE, examining autocracy in its many forms. From Tarquinius Superbus in Rome to Pisistratus in Athens; from Dionysius I to the Roman dictators, the module uses a broad historical scale to pose questions about the nature of rulership and the ways in which individuals wielded power in classical times. What was the difference between a basileus and a tyrannos? What did Dionysius of Halicarnassus mean when he referred to the Roman dictatorship as an 'elective tyranny'? How could a notoriously cruel tyrant like Periander of Corinth gain a posthumous reputation as a lawgiver and sage? By examining instances of sole rule through the works of historians (from Herodotus to Livy) and philosophers (from Plato to Cicero), students will gain an understanding of the workings of political power in antiquity, and the ways in which ancient writers have themselves influenced modern formulations of ancient politics.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

| AN5140 Religion and Society in the Roman Empire   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The study of Roman religion has attracted enormous attention in recent years. Traditional topics like the importance of rituals and priesthods, the civic character of ancient religion, and even the impact of the empire on religious life are being revised by recent work. At the same time, issues like the definition of religious identities and the development of networks and other forms of religious integration have been placed centre-stage. The aim of this module is to analyse these developments, through the discussion of case-studies and current historiographic and theoretical debates.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Machado  |               |                  |   |



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| AN5141 The World of Late Antiquity   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The period between 284 and 700 CE was marked by crucial developments that involved the entire Mediterranean World. This module will explore these developments by focusing on different aspects of the history and archaeology of the period, including the relationship between Romans and Barbarians, the rise of Christianity and the affirmation of orthodoxy, the development of new forms of political power, and the issue of social and economic dynamism (or lack thereof). The aim of this module is to provide a comprehensive view of this period, as well as an opportunity for assessing the different types of evidence available to scholars.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Machado  |               |                  |   |

| CL5305 Research Training: Special Topic 1  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials.                  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr E Gee  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | Individual tutors assigned as required  |               |                  |        |

| CL5306 Research Training: Special Topic 2  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |        |
| <b>Anti-requisite(s):</b>  | CL5305  |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 x 1-hour tutorials.                               |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr A Long   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | Individual tutors assigned as required  |               |                  |        |

| CL5401 Representations of Women in the Ancient World   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine different forms of evidence for the perceptions of women, usually by men, in the ancient Greek and Roman worlds. Case studies will include Homeric women, Classical Athens and Sparta, queens and powerful women in the Hellenistic world and in the Roman Near East, Republican and Imperial Rome. Methodological issues will include the handling of different kinds of evidence (literary, epigraphic, legal) and influences on modern scholarship on gender.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials.                  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Lewis  |               |                  |   |

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| CL5425 Classical Reception   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module offers the opportunity to study an increasingly influential sub-discipline of Classics: 'Reception Studies'. The module will examine how and for what purposes classical culture is perceived and transmitted; evaluate theoretical approaches and methods (both historicist and ahistoricist) to reading ancient texts 'against' receiving texts; and test these approaches through targeted examples of the reception of Virgil and Ovid. While tutorial time will be devoted to the literary reception of Augustan epic, students will have the chance in coursework to undertake case-studies in other authors, ancient and modern, and/or to explore 'reception' in non-literary contexts (e.g. art, film, theatre).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional module for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour seminars.                         |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Buckley   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Buckley   |               |                  |   |

### Beginners' Language modules:

| GK1001 Greek Language for Beginners  |  |              |                  |   |
|--|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 7 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am   |              |                  |   |
| <p>This module provides a thorough grounding in the Greek language for beginners or near beginners. It is suitable both for students who intend to take further Greek modules and for those who wish to acquire a basic knowledge of Greek, which is useful for the study of other subjects in the Faculty such as History or English.</p> |  |              |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 classes.  |              |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)                     |              |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Coderch   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Coderch   |              |                  |   |

| GK1002 Greek Literature for Beginners   |  |              |                  |   |
|---|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 7 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am   |              |                  |   |
| <p>This module is designed to follow on from GK1001. As such, GK1002 comprises language classes intended to supplement the topics covered in semester 1 and to prepare students for the challenge of reading and interpreting Greek literature. One prose set text will be studied in the original Greek in such a way as both to enhance the linguistic confidence of students and to explore literary and cultural issues arising from the works. The current set text is a speech by Lysias (written for a sensational murder trial), which opens up a range of themes important for the larger history of Greek literature in its historical context.</p> |  |              |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |              |                  |   |
| <b>Pre-requisite(s):</b>  | GK1001, or equivalent knowledge of Greek.  |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 classes.  |              |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)                     |              |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Coderch   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Coderch   |              |                  |   |

| GK1005 Greek Language and Literature 1   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 7         | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am   |                      |                  |   |
| <p>This module is designed for students who have already taken ancient Greek to Higher, A level or equivalent standard. Set texts for this module will be studied in the original Greek prose and verse. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek. The overall aims of the module are to build up the confidence of students in reading and interpreting Greek literature in its historical and cultural context. Students will read one work of Greek prose and one work of Greek verse.</p> |  |                      |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                      |                  |   |
| <b>Pre-requisite(s):</b>   | Higher or A-level Greek or equivalent.   |                      |                  |   |
| <b>Anti-requisite(s):</b>  | GK1001   | <b>Required for:</b> | GK1006           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Mantzouranis  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                      |                  |   |

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| GK1006 Greek Pastoral and Passion   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 7         | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am   |                      |                  |   |
| This module, designed to follow on from GK1005, will introduce students to two new areas of Greek literature, between which there are interesting and important thematic connections: bucolic or pastoral poetry (the Idylls of Theocritus) and the romantic novel (Longus). Both these set texts will be studied in the original Greek. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek. |  |                      |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                      |                  |   |
| <b>Pre-requisite(s):</b>  | GK1005, Higher or A-level Greek or equivalent.   |                      |                  |   |
| <b>Anti-requisite(s):</b>   | GK1002   | <b>Required for:</b> | GK2001           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                      |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Addey   |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                      |                  |   |

| GK2001 The Landscape of Greek Prose (A)   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am   |                           |                  |   |
| This module, designed to follow on from GK1006, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>  | GK1006   | <b>Anti-requisite(s):</b> | GK2003           |   |
| <b>Required for:</b>  | GK2002   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Hesk  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| GK2002 The Landscape of Greek Poetry (A)   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                  |   |
| <p>This module, designed to follow on from GK2001, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek.</p> |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>   | GK2001   | <b>Anti-requisite(s):</b> | GK2004           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Mantzouranis  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                  |   |

| GK2003 The Landscape of Greek Prose (B)  |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                  |   |
| <p>This module, designed to follow on from GK1002, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature.</p> |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>   | GK1002   | <b>Anti-requisite(s):</b> | GK2001           |   |
| <b>Required for:</b>   | GK2004   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Hesk  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                  |   |

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| GK2004 The Landscape of Greek Poetry (B)  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am   |                           |                  |   |
| This module, designed to follow on from GK2003, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>  | GK2003   | <b>Anti-requisite(s):</b> | GK2002           |   |
| <b>Required for:</b>  | LT3017   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%, 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Mantzouranis  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| LT1001 Elementary Latin 1   |   |                      |                  |   |
|---|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 7         | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm   |                      |                  |   |
| This module provides a systematic introduction to the Latin language, concentrating on morphology, vocabulary, and basic syntax, and will enable students to read simplified Latin texts and translate sentences from Latin into English and vice versa. It is complemented by LT1002, and will thus give access to Latin at higher levels, but it may also be taken by students whose main interests lie in other areas, such as histories, foreign languages and English. It is also suitable for students who have taken some Latin previously, but not to Higher or A-Level, or who have taken Higher or A-Level Latin on reduced time. |   |                      |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin |                      |                  |   |
| <b>Anti-requisite(s):</b>   | LT1003  | <b>Required for:</b> | LT1002           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)          |                      |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Coderch  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Coderch  |                      |                  |   |

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| <b>LT1002 Elementary Latin 2</b>   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| This module builds on the work done in LT1001, and its function is to develop knowledge of Latin morphology, syntax and vocabulary and to enable students to read Latin texts. Together with LT1001 it may form a basis for Latin at higher levels, but it will also be useful to students of the histories, foreign languages, English and other subjects. There will be lectures on selected poems of Catullus at the end of the module. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT1001  | <b>Anti-requisite(s):</b> | LT1004           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)          |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Coderch  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Coderch  |                           |                  |   |

| <b>LT1003 World of Latin 1</b>   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| The aims of this module, like LT1004, are to enhance understanding of Latin grammar and syntax, to increase vocabulary, to give a basic understanding of style, and to develop skills in translating and interpreting literary texts. A selection of classical Latin texts are studied, and student are encouraged and assisted to practice reading independently and in extenso. There will be tutorials to support this work and to help with the translation and appreciation of these and other Latin prose and verse authors. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin                         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | Higher or A-Level Latin   | <b>Anti-requisite(s):</b> | LT1001           |   |
| <b>Required for:</b>   | LT1004  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (2 literary criticisms, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Rees   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |



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| LT1004 World of Latin 2  |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| This module aims to build on the skills acquired in LT1003, and to introduce students to a wider range of Latin literature. Texts studied may include early or mediaeval Latin, as well as classical literature. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin                         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT1003  | <b>Anti-requisite(s):</b> | LT1002           |   |
| <b>Required for:</b>   | LT2001  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (2 literary criticisms, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Gee  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

| LT2001 Latin Language and Literature 1  |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm   |                           |                  |   |
| The aim of this module is to foster the student's acquaintance with classical Latin and to explore both prose and verse authors. The authors chosen may vary from year to year. Particular attention is paid to the development of their ideas, literary styles, and genres. There will be lectures on the authors set, seminars to discuss broader themes within the module, and tutorials to monitor and assist progress in study of the language and interpretation of the literature. |   |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin         |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT1004  | <b>Anti-requisite(s):</b> | LT2003           |   |
| <b>Required for:</b>  | LT2002, LT4203  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (essay, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |                           |                  |   |

| LT2002 Latin Language and Literature 2   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 2.00 pm   |                           |                  |   |
| In complement to the programme of LT2001, this module aims to consolidate the student's command of the language in preparation for study at Honours level, and in literature brings the student to further genres and authors, in prose and verse. There will be lectures on the authors set, seminars on broader themes, and, as in LT2001, tutorials to monitor and assist progress in study of the language and interpretation of the literature. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT2001  | <b>Anti-requisite(s):</b> | LT2004           |   |
| <b>Required for:</b>   | LT4203  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (essay, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr N Manioti  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

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| LT2003 Latin in Progress 1  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm  |                           |                  |   |
| Texts and topics for this module will be similar to those for LT2001, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin                        |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT1002   | <b>Anti-requisite(s):</b> | LT2001           |   |
| <b>Required for:</b>  | LT2004   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 4 classes per week, plus 8 hours of additional support classes.         |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (1 literary criticism, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| LT2004 Latin in Progress 2  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm  |                           |                  |   |
| In this module the same prescribed texts and topics will be studied as in LT2002, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin                        |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT2003   | <b>Anti-requisite(s):</b> | LT2002           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 classes.  |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (1 literary criticism, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr N Manioti   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

## Masters in Classical Studies

### Programme Requirements

**Postgraduate Diploma:** *(this is also the Taught Element of the MLitt and MPhil programmes)*

60 credits: CL5201

Either: 60 credits: CL5001 - CL5098, CL5101 - CL5199, CL5301 - CL5499, AN5101- AN5199 (excluding AN5099). This option is only available to candidates who have already attained the agreed linguistic standards in Greek or Latin, and by agreement with the Head of School.

Or: 30 credits: CL5001 - CL5098, CL5101 - CL5199, CL5301- CL5499, AN5101- AN5199 (excluding AN5099)

Plus

40 credits of beginners' language modules i.e. {GK1001 and GK1002} or {LT1001 and LT1002}.

With the permission of the Head of School, 40 credits from the following pairs of modules may be substituted for the beginners' language modules: {GK1005 and GK1006}, {GK2001 and GK2002}, {GK2003 and GK2004}, {LT1003 and LT1004}, {LT2001 and LT2002}, {LT2003 and LT2004}.

With the permission of the relevant Head(s) of School, up to 30 credits may be taken from other programmes taught by the School of Classics or by other Schools.

**MLitt:**

120 - 130 credits as for the Taught Element plus CL5099

**MPhil:**

120 - 130 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| CL5201 Themes and Methods in Classics   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module will provide an introduction to the research opportunities in Classical Studies and Greek and Latin language and literature, with instruction in the skills appropriate to different areas and interests. The topics covered in the module will include: various modern approaches to literature; texts and transmission; translation; reception. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Classical Studies, Greek, Latin and Greek and Latin Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hourly meetings most weeks, plus individual meetings as required.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Long   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |            |

| CL5099 Dissertation for MLitt Programme/s   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor                                      |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Classical Studies, Greek and Latin MLitt Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision                                    |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Long  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual supervisors assigned as required                                      |               |                  |            |

### Optional modules – choose 2:

| CL5305 Research Training: Special Topic 1   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor. |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Classical Studies, Greek and Latin, Greek, and Postgraduate Programmes.       |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials. |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr A Long  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual tutors assigned as required   |               |                  |        |

| CL5306 Research Training: Special Topic 2   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor. |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Classical Studies, Greek and Latin, Greek, and Postgraduate Programmes. |               |                  |        |
| <b>Anti-requisite(s):</b>   | CL5305   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 x 1-hour tutorials.        |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr A Long  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual tutors assigned as required   |               |                  |        |

| CL5401 Representations of Women in the Ancient World  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module will examine different forms of evidence for the perceptions of women, usually by men, in the ancient Greek and Roman worlds. Case studies will include Homeric women, Classical Athens and Sparta, queens and powerful women in the Hellenistic world and in the Roman Near East, Republican and Imperial Rome. Methodological issues will include the handling of different kinds of evidence (literary, epigraphic, legal) and influences on modern scholarship on gender. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials.                  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

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| CL5425 Classical Reception   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module offers the opportunity to study an increasingly influential sub-discipline of Classics: 'Reception Studies'. The module will examine how and for what purposes classical culture is perceived and transmitted; evaluate theoretical approaches and methods (both historicist and ahistoricist) to reading ancient texts 'against' receiving texts; and test these approaches through targeted examples of the reception of Virgil and Ovid. While tutorial time will be devoted to the literary reception of Augustan epic, students will have the chance in coursework to undertake case-studies in other authors, ancient and modern, and/or to explore 'reception' in non-literary contexts (e.g. art, film, theatre).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional module for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour seminars.                         |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Buckley   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Buckley   |               |                  |   |

| AN5103 Religion and Society in the Ancient Greek World   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine the role of religious practice and belief in Greek society, from the sixth till the fourth century BCE. It will look at a variety of different cults - from inter-state cults such as Delphi and Olympia, through the level of the polis to family religion - and at a range of different themes: the relationship of religion with politics and polis-ideology, the practice of divination, the belief in the afterlife (among many others). A particular emphasis will be laid on the examination of religious change, placing the sceptical ideas of the fifth century in the context of traditional religious conceptions.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Anderson   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Anderson   |               |                  |   |

| AN5137 Tyranny and Kingship in the Ancient Mediterranean  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module spans Mediterranean history from the seventh to the third century BCE, examining autocracy in its many forms. From Tarquinius Superbus in Rome to Pisistratus in Athens; from Dionysius I to the Roman dictators, the module uses a broad historical scale to pose questions about the nature of rulership and the ways in which individuals wielded power in classical times. What was the difference between a basileus and a tyrannos? What did Dionysius of Halicarnassus mean when he referred to the Roman dictatorship as an 'elective tyranny'? How could a notoriously cruel tyrant like Periander of Corinth gain a posthumous reputation as a lawgiver and sage? By examining instances of sole rule through the works of historians (from Herodotus to Livy) and philosophers (from Plato to Cicero), students will gain an understanding of the workings of political power in antiquity, and the ways in which ancient writers have themselves influenced modern formulations of ancient politics.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

| AN5140 Religion and Society in the Roman Empire   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The study of Roman religion has attracted enormous attention in recent years. Traditional topics like the importance of rituals and priesthods, the civic character of ancient religion, and even the impact of the empire on religious life are being revised by recent work. At the same time, issues like the definition of religious identities and the development of networks and other forms of religious integration have been placed centre-stage. The aim of this module is to analyse these developments, through the discussion of case-studies and current historiographic and theoretical debates.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Machado  |               |                  |   |

| AN5141 The World of Late Antiquity   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The period between 284 and 700 CE was marked by crucial developments that involved the entire Mediterranean World. This module will explore these developments by focusing on different aspects of the history and archaeology of the period, including the relationship between Romans and Barbarians, the rise of Christianity and the affirmation of orthodoxy, the development of new forms of political power, and the issue of social and economic dynamism (or lack thereof). The aim of this module is to provide a comprehensive view of this period, as well as an opportunity for assessing the different types of evidence available to scholars.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Machado  |               |                  |   |

### Beginners' Language modules:

| GK1001 Greek Language for Beginners  |  |              |                  |   |
|--|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 7 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am   |              |                  |   |
| <p>This module provides a thorough grounding in the Greek language for beginners or near beginners. It is suitable both for students who intend to take further Greek modules and for those who wish to acquire a basic knowledge of Greek, which is useful for the study of other subjects in the Faculty such as History or English.</p> |  |              |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 classes.  |              |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)                     |              |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Coderch   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Coderch   |              |                  |   |



| GK1002 Greek Literature for Beginners   |  |              |                  |   |
|---|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 7 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am   |              |                  |   |
| <p>This module is designed to follow on from GK1001. As such, GK1002 comprises language classes intended to supplement the topics covered in semester 1 and to prepare students for the challenge of reading and interpreting Greek literature. One prose set text will be studied in the original Greek in such a way as both to enhance the linguistic confidence of students and to explore literary and cultural issues arising from the works. The current set text is a speech by Lysias (written for a sensational murder trial), which opens up a range of themes important for the larger history of Greek literature in its historical context.</p> |  |              |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |              |                  |   |
| <b>Pre-requisite(s):</b>  | GK1001, or equivalent knowledge of Greek.  |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 classes.  |              |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)                     |              |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Coderch   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Coderch   |              |                  |   |

| GK1005 Greek Language and Literature 1   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 7         | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am   |                      |                  |   |
| <p>This module is designed for students who have already taken ancient Greek to Higher, A level or equivalent standard. Set texts for this module will be studied in the original Greek prose and verse. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek. The overall aims of the module are to build up the confidence of students in reading and interpreting Greek literature in its historical and cultural context. Students will read one work of Greek prose and one work of Greek verse.</p> |  |                      |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                      |                  |   |
| <b>Pre-requisite(s):</b>   | Higher or A-level Greek or equivalent.   |                      |                  |   |
| <b>Anti-requisite(s):</b>  | GK1001   | <b>Required for:</b> | GK1006           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Mantzouranis  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                      |                  |   |

| GK1006 Greek Pastoral and Passion   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 7         | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am   |                      |                  |   |
| This module, designed to follow on from GK1005, will introduce students to two new areas of Greek literature, between which there are interesting and important thematic connections: bucolic or pastoral poetry (the Idylls of Theocritus) and the romantic novel (Longus). Both these set texts will be studied in the original Greek. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek. |  |                      |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                      |                  |   |
| <b>Pre-requisite(s):</b>  | GK1005, Higher or A-level Greek or equivalent.   |                      |                  |   |
| <b>Anti-requisite(s):</b>   | GK1002   | <b>Required for:</b> | GK2001           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                      |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Addey   |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                      |                  |   |

| GK2001 The Landscape of Greek Prose (A)   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am   |                           |                  |   |
| This module, designed to follow on from GK1006, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>  | GK1006   | <b>Anti-requisite(s):</b> | GK2003           |   |
| <b>Required for:</b>  | GK2002   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Hesk  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| GK2002 The Landscape of Greek Poetry (A)  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am   |                           |                  |   |
| This module, designed to follow on from GK2001, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>  | GK2001   | <b>Anti-requisite(s):</b> | GK2004           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Mantzouranis  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| GK2003 The Landscape of Greek Prose (B)   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am   |                           |                  |   |
| This module, designed to follow on from GK1002, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>  | GK1002   | <b>Anti-requisite(s):</b> | GK2001           |   |
| <b>Required for:</b>  | GK2004   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Hesk  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

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| GK2004 The Landscape of Greek Poetry (B)  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am   |                           |                  |   |
| This module, designed to follow on from GK2003, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>  | GK2003   | <b>Anti-requisite(s):</b> | GK2002           |   |
| <b>Required for:</b>  | LT3017   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%, 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Mantzouranis  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| LT1001 Elementary Latin 1   |   |                      |                  |   |
|---|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 7         | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm   |                      |                  |   |
| This module provides a systematic introduction to the Latin language, concentrating on morphology, vocabulary, and basic syntax, and will enable students to read simplified Latin texts and translate sentences from Latin into English and vice versa. It is complemented by LT1002, and will thus give access to Latin at higher levels, but it may also be taken by students whose main interests lie in other areas, such as histories, foreign languages and English. It is also suitable for students who have taken some Latin previously, but not to Higher or A-Level, or who have taken Higher or A-Level Latin on reduced time. |   |                      |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin |                      |                  |   |
| <b>Anti-requisite(s):</b>   | LT1003  | <b>Required for:</b> | LT1002           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)          |                      |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Coderch  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Coderch  |                      |                  |   |

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| <b>LT1002 Elementary Latin 2</b>   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| This module builds on the work done in LT1001, and its function is to develop knowledge of Latin morphology, syntax and vocabulary and to enable students to read Latin texts. Together with LT1001 it may form a basis for Latin at higher levels, but it will also be useful to students of the histories, foreign languages, English and other subjects. There will be lectures on selected poems of Catullus at the end of the module. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT1001  | <b>Anti-requisite(s):</b> | LT1004           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)          |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Coderch  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Coderch  |                           |                  |   |

| <b>LT1003 World of Latin 1</b>   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| The aims of this module, like LT1004, are to enhance understanding of Latin grammar and syntax, to increase vocabulary, to give a basic understanding of style, and to develop skills in translating and interpreting literary texts. A selection of classical Latin texts are studied, and student are encouraged and assisted to practice reading independently and in extenso. There will be tutorials to support this work and to help with the translation and appreciation of these and other Latin prose and verse authors. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin                         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | Higher or A-Level Latin   | <b>Anti-requisite(s):</b> | LT1001           |   |
| <b>Required for:</b>   | LT1004  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (2 literary criticisms, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Rees   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

| <b>LT1004 World of Latin 2</b>   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| This module aims to build on the skills acquired in LT1003, and to introduce students to a wider range of Latin literature. Texts studied may include early or mediaeval Latin, as well as classical literature. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin                         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT1003  | <b>Anti-requisite(s):</b> | LT1002           |   |
| <b>Required for:</b>   | LT2001  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (2 literary criticisms, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Gee  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

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| LT2001 Latin Language and Literature 1  |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm   |                           |                  |   |
| The aim of this module is to foster the student's acquaintance with classical Latin and to explore both prose and verse authors. The authors chosen may vary from year to year. Particular attention is paid to the development of their ideas, literary styles, and genres. There will be lectures on the authors set, seminars to discuss broader themes within the module, and tutorials to monitor and assist progress in study of the language and interpretation of the literature. |   |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin         |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT1004  | <b>Anti-requisite(s):</b> | LT2003           |   |
| <b>Required for:</b>  | LT2002, LT4203  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (essay, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |                           |                  |   |

| LT2002 Latin Language and Literature 2   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 2.00 pm   |                           |                  |   |
| In complement to the programme of LT2001, this module aims to consolidate the student's command of the language in preparation for study at Honours level, and in literature brings the student to further genres and authors, in prose and verse. There will be lectures on the authors set, seminars on broader themes, and, as in LT2001, tutorials to monitor and assist progress in study of the language and interpretation of the literature. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT2001  | <b>Anti-requisite(s):</b> | LT2004           |   |
| <b>Required for:</b>   | LT4203  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (essay, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr N Maniotti   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

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| <b>LT2003 Latin in Progress 1</b>   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm  |                           |                  |   |
| Texts and topics for this module will be similar to those for LT2001, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin                        |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT1002   | <b>Anti-requisite(s):</b> | LT2001           |   |
| <b>Required for:</b>  | LT2004   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 4 classes per week, plus 8 hours of additional support classes.         |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (1 literary criticism, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| <b>LT2004 Latin in Progress 2</b>   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm  |                           |                  |   |
| In this module the same prescribed texts and topics will be studied as in LT2002, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin                        |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT2003   | <b>Anti-requisite(s):</b> | LT2002           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 classes.  |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (1 literary criticism, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr N Manioti   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

## Masters in Greek

### Programme Requirements

**Postgraduate Diploma:** *(this is also the Taught Element of the MLitt and MPhil programmes)*

60 credits: CL5201

30 credits: GK5101 - GK5199

Either: 30 credits: GK5101 - GK5199, CL5301 - CL5499, AN5101 - AN5199

Or: 40 credits: LT1001 and LT1002.

With the permission of the Head of School, 40 credits from the following pairs of modules may be substituted for LT1001 and LT1002: {LT1003 and LT1004}, {LT2001 and LT2002}, {LT2003 and LT2004}.

With the permission of the relevant Head(s) of School, up to 30 credits may be taken from other programmes taught by the School of Classics or by other Schools.

#### MLitt:

120 - 130 credits as for the Taught Element plus GK5099.

#### MPhil:

120 - 130 credits as for the Taught Element plus a thesis of not more than 40,000 words.

### Compulsory modules:

| CL5201 Themes and Methods in Classics   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module will provide an introduction to the research opportunities in Classical Studies and Greek and Latin language and literature, with instruction in the skills appropriate to different areas and interests. The topics covered in the module will include: various modern approaches to literature; texts and transmission; translation; reception. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Classical Studies, Greek, Latin and Greek and Latin Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hourly meetings most weeks, plus individual meetings as required.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Long   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |            |



## Classics - Greek MLitt & MPhil - 2015/6 - November 2015

| GK5099 Dissertation for MLitt Programme/s   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor        |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Greek MLitt Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision      |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Long  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual supervisors assigned as required        |               |                  |            |

### Optional modules – choose 2:

| GK5102 Greek Tragedy and Athenian Culture  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module will allow for study of both selected primary texts (Aeschylus and/or Sophocles and/or Euripides) and major critical issues in the field of Classical Athenian Tragedy. The topics to be covered will be chosen from areas of literary, theatrical, historical and broader cultural interest bearing on the status and development of tragic drama in the fifth century, with particular emphasis on the relationship of tragedy to the political, social and religious values and institutions of the Athenian polis. The module will consider the ways in which tragedy questioned or endorsed Athenian civic culture, as well as the genre's relationship with other forms of civic practice. The course will bring together close linguistic study of Greek texts and engagement with larger concerns arising from current and recent scholarship. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Greek and Greek and Latin Postgraduate Programmes.                         |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Hesk   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Hesk   |               |                  |   |

**CL5305 Research Training: Special Topic 1**

|   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor. |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Classical Studies, Greek and Latin, Greek, and Postgraduate Programmes.       |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials. |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr A Long  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual tutors assigned as required   |               |                  |        |

**CL5306 Research Training: Special Topic 2**

|   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor. |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Classical Studies, Greek and Latin, Greek, and Postgraduate Programmes. |               |                  |        |
| <b>Anti-requisite(s):</b>   | CL5305   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 x 1-hour tutorials.        |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr A Long  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual tutors assigned as required   |               |                  |        |

| CL5401 Representations of Women in the Ancient World  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module will examine different forms of evidence for the perceptions of women, usually by men, in the ancient Greek and Roman worlds. Case studies will include Homeric women, Classical Athens and Sparta, queens and powerful women in the Hellenistic world and in the Roman Near East, Republican and Imperial Rome. Methodological issues will include the handling of different kinds of evidence (literary, epigraphic, legal) and influences on modern scholarship on gender. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials.                  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

| CL5425 Classical Reception  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module offers the opportunity to study an increasingly influential sub-discipline of Classics: 'Reception Studies'. The module will examine how and for what purposes classical culture is perceived and transmitted; evaluate theoretical approaches and methods (both historicist and ahistoricist) to reading ancient texts 'against' receiving texts; and test these approaches through targeted examples of the reception of Virgil and Ovid. While tutorial time will be devoted to the literary reception of Augustan epic, students will have the chance in coursework to undertake case-studies in other authors, ancient and modern, and/or to explore 'reception' in non-literary contexts (e.g. art, film, theatre). |  |               |                  |   |
| <b>Programme module type:</b>   | Optional module for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour seminars.                         |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Buckley   |               |                  |   |

| AN5103 Religion and Society in the Ancient Greek World   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine the role of religious practice and belief in Greek society, from the sixth till the fourth century BCE. It will look at a variety of different cults - from inter-state cults such as Delphi and Olympia, through the level of the polis to family religion - and at a range of different themes: the relationship of religion with politics and polis-ideology, the practice of divination, the belief in the afterlife (among many others). A particular emphasis will be laid on the examination of religious change, placing the sceptical ideas of the fifth century in the context of traditional religious conceptions.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Anderson   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Anderson   |               |                  |   |

| AN5137 Tyranny and Kingship in the Ancient Mediterranean  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module spans Mediterranean history from the seventh to the third century BCE, examining autocracy in its many forms. From Tarquinius Superbus in Rome to Pisistratus in Athens; from Dionysius I to the Roman dictators, the module uses a broad historical scale to pose questions about the nature of rulership and the ways in which individuals wielded power in classical times. What was the difference between a basileus and a tyrannos? What did Dionysius of Halicarnassus mean when he referred to the Roman dictatorship as an 'elective tyranny'? How could a notoriously cruel tyrant like Periander of Corinth gain a posthumous reputation as a lawgiver and sage? By examining instances of sole rule through the works of historians (from Herodotus to Livy) and philosophers (from Plato to Cicero), students will gain an understanding of the workings of political power in antiquity, and the ways in which ancient writers have themselves influenced modern formulations of ancient politics.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

| AN5140 Religion and Society in the Roman Empire   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| The study of Roman religion has attracted enormous attention in recent years. Traditional topics like the importance of rituals and priesthoods, the civic character of ancient religion, and even the impact of the empire on religious life are being revised by recent work. At the same time, issues like the definition of religious identities and the development of networks and other forms of religious integration have been placed centre-stage. The aim of this module is to analyse these developments, through the discussion of case-studies and current historiographic and theoretical debates. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Machado  |               |                  |   |

| AN5141 The World of Late Antiquity  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| The period between 284 and 700 CE was marked by crucial developments that involved the entire Mediterranean World. This module will explore these developments by focusing on different aspects of the history and archaeology of the period, including the relationship between Romans and Barbarians, the rise of Christianity and the affirmation of orthodoxy, the development of new forms of political power, and the issue of social and economic dynamism (or lack thereof). The aim of this module is to provide a comprehensive view of this period, as well as an opportunity for assessing the different types of evidence available to scholars. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Machado  |               |                  |   |

## Beginners' Language modules:

| LT1001 Elementary Latin 1  |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7         | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 pm   |                      |                  |   |
| <p>This module provides a systematic introduction to the Latin language, concentrating on morphology, vocabulary, and basic syntax, and will enable students to read simplified Latin texts and translate sentences from Latin into English and vice versa. It is complemented by LT1002, and will thus give access to Latin at higher levels, but it may also be taken by students whose main interests lie in other areas, such as histories, foreign languages and English. It is also suitable for students who have taken some Latin previously, but not to Higher or A-Level, or who have taken Higher or A-Level Latin on reduced time.</p> |   |                      |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin |                      |                  |   |
| <b>Anti-requisite(s):</b>  | LT1003  | <b>Required for:</b> | LT1002           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)          |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Coderch  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Coderch  |                      |                  |   |

| LT1002 Elementary Latin 2   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 7              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm   |                           |                  |   |
| <p>This module builds on the work done in LT1001, and its function is to develop knowledge of Latin morphology, syntax and vocabulary and to enable students to read Latin texts. Together with LT1001 it may form a basis for Latin at higher levels, but it will also be useful to students of the histories, foreign languages, English and other subjects. There will be lectures on selected poems of Catullus at the end of the module.</p> |   |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT1001  | <b>Anti-requisite(s):</b> | LT1004           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)          |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Coderch  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Coderch  |                           |                  |   |

## Classics - Greek MLitt & MPhil - 2015/6 - November 2015

| LT1003 World of Latin 1  |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| The aims of this module, like LT1004, are to enhance understanding of Latin grammar and syntax, to increase vocabulary, to give a basic understanding of style, and to develop skills in translating and interpreting literary texts. A selection of classical Latin texts are studied, and student are encouraged and assisted to practice reading independently and in extenso. There will be tutorials to support this work and to help with the translation and appreciation of these and other Latin prose and verse authors. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin                         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | Higher or A-Level Latin   | <b>Anti-requisite(s):</b> | LT1001           |   |
| <b>Required for:</b>   | LT1004  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (2 literary criticisms, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Rees   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

| LT1004 World of Latin 2  |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| This module aims to build on the skills acquired in LT1003, and to introduce students to a wider range of Latin literature. Texts studied may include early or mediaeval Latin, as well as classical literature. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin                         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT1003  | <b>Anti-requisite(s):</b> | LT1002           |   |
| <b>Required for:</b>   | LT2001  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (2 literary criticisms, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Gee  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

| LT2001 Latin Language and Literature 1  |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm   |                           |                  |   |
| The aim of this module is to foster the student's acquaintance with classical Latin and to explore both prose and verse authors. The authors chosen may vary from year to year. Particular attention is paid to the development of their ideas, literary styles, and genres. There will be lectures on the authors set, seminars to discuss broader themes within the module, and tutorials to monitor and assist progress in study of the language and interpretation of the literature. |   |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin         |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT1004  | <b>Anti-requisite(s):</b> | LT2003           |   |
| <b>Required for:</b>  | LT2002, LT4203  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (essay, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |                           |                  |   |

| LT2002 Latin Language and Literature 2   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 2.00 pm   |                           |                  |   |
| In complement to the programme of LT2001, this module aims to consolidate the student's command of the language in preparation for study at Honours level, and in literature brings the student to further genres and authors, in prose and verse. There will be lectures on the authors set, seminars on broader themes, and, as in LT2001, tutorials to monitor and assist progress in study of the language and interpretation of the literature. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT2001  | <b>Anti-requisite(s):</b> | LT2004           |   |
| <b>Required for:</b>   | LT4203  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (essay, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr N Manioti  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |



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| LT2003 Latin in Progress 1  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm  |                           |                  |   |
| Texts and topics for this module will be similar to those for LT2001, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin                        |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT1002   | <b>Anti-requisite(s):</b> | LT2001           |   |
| <b>Required for:</b>  | LT2004   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 4 classes per week, plus 8 hours of additional support classes.         |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (1 literary criticism, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| LT2004 Latin in Progress 2  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm  |                           |                  |   |
| In this module the same prescribed texts and topics will be studied as in LT2002, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin                        |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT2003   | <b>Anti-requisite(s):</b> | LT2002           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 classes.  |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (1 literary criticism, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr N Maniotti  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

## Masters in Greek and Latin

### Programme Requirements

**Postgraduate Diploma:** (*this is also the Taught Element of the MLitt and MPhil programmes*)

60 credits: CL5201

One of the following combinations:

- 30 credits: GK5101 - GK5199 and 30 credits: LT5001 - LT5098
- 30 credits: GK5101 - GK5199 and 40 credits: LT1001 and LT1002

With the permission of the Head of School, 40 credits from the following pairs of modules may be substituted for LT1001 and LT1002: {LT1003 and LT1004}, {LT2001 and LT2002}, {LT2003 and LT2004}.

- 30 credits: LT5001 - LT5098 and 40 credits: GK1001 and GK1002

With the permission of the Head of School, 40 credits from the following pairs of modules may be substituted for GK1002 and GK1002: {GK1005 and GK1006}, {GK2001 and GK2002}, {GK2003 and GK2004}.

With the permission of the relevant Head(s) of School, up to 30 credits may be taken from other programmes taught by the School of Classics or by other Schools.

**MLitt:**

120 - 130 credits as for the Taught Element plus CL5099

**MPhil:**

120 - 130 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| CL5201 Themes and Methods in Classics   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module will provide an introduction to the research opportunities in Classical Studies and Greek and Latin language and literature, with instruction in the skills appropriate to different areas and interests. The topics covered in the module will include: various modern approaches to literature; texts and transmission; translation; reception. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Classical Studies, Greek, Latin and Greek and Latin Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hourly meetings most weeks, plus individual meetings as required.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Long   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |            |

| CL5099 Dissertation for MLitt Programme/s   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor                                      |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Classical Studies, Greek and Latin MLitt Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision                                    |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Long  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual supervisors assigned as required                                      |               |                  |            |

### Optional modules – choose 2:

| GK5102 Greek Tragedy and Athenian Culture  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module will allow for study of both selected primary texts (Aeschylus and/or Sophocles and/or Euripides) and major critical issues in the field of Classical Athenian Tragedy. The topics to be covered will be chosen from areas of literary, theatrical, historical and broader cultural interest bearing on the status and development of tragic drama in the fifth century, with particular emphasis on the relationship of tragedy to the political, social and religious values and institutions of the Athenian polis. The module will consider the ways in which tragedy questioned or endorsed Athenian civic culture, as well as the genre's relationship with other forms of civic practice. The course will bring together close linguistic study of Greek texts and engagement with larger concerns arising from current and recent scholarship. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Greek and Greek and Latin Postgraduate Programmes.                         |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Hesk   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Hesk   |               |                  |   |

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| <b>LT5001 Roman Epic</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | by arrangement.   |               |                  |   |
| This module studies the development of Latin epic from the beginnings to the first century CE. A selection of texts is studied, chosen in consultation between student and supervisor. Topics covered may include the influence of Greek epic upon the Latin writers, and the development of epic in the century after Vergil; and close study will be made of theme and structure, and the style and technique of each poet. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Greek and Latin and Latin Postgraduate Programmes.                         |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Buckley  |               |                  |   |

| <b>LT5016 Latin Didactic Poetry</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module examines the development of one of the major genres of Classical Latin poetry during the late Republic and early empire, with due consideration of the Hellenistic and archaic Greek background. A selection of texts, chosen in consultation between student and supervisor, will be studied, with particular attention to their literary form and background, to the didactic poet's message, and to his self-presentation as an authority and teacher. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional module for Greek and Latin and Latin Postgraduate Programmes.                  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Gee  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Gee  |               |                  |   |

OR with Head of School permission - one of the following may be substituted:

| AN5103 Religion and Society in the Ancient Greek World   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine the role of religious practice and belief in Greek society, from the sixth till the fourth century BCE. It will look at a variety of different cults - from inter-state cults such as Delphi and Olympia, through the level of the polis to family religion - and at a range of different themes: the relationship of religion with politics and polis-ideology, the practice of divination, the belief in the afterlife (among many others). A particular emphasis will be laid on the examination of religious change, placing the sceptical ideas of the fifth century in the context of traditional religious conceptions.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Anderson   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Anderson   |               |                  |   |

| AN5137 Tyranny and Kingship in the Ancient Mediterranean  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module spans Mediterranean history from the seventh to the third century BCE, examining autocracy in its many forms. From Tarquinius Superbus in Rome to Pisistratus in Athens; from Dionysius I to the Roman dictators, the module uses a broad historical scale to pose questions about the nature of rulership and the ways in which individuals wielded power in classical times. What was the difference between a basileus and a tyrannos? What did Dionysius of Halicarnassus mean when he referred to the Roman dictatorship as an 'elective tyranny'? How could a notoriously cruel tyrant like Periander of Corinth gain a posthumous reputation as a lawgiver and sage? By examining instances of sole rule through the works of historians (from Herodotus to Livy) and philosophers (from Plato to Cicero), students will gain an understanding of the workings of political power in antiquity, and the ways in which ancient writers have themselves influenced modern formulations of ancient politics.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

| AN5140 Religion and Society in the Roman Empire   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The study of Roman religion has attracted enormous attention in recent years. Traditional topics like the importance of rituals and priesthods, the civic character of ancient religion, and even the impact of the empire on religious life are being revised by recent work. At the same time, issues like the definition of religious identities and the development of networks and other forms of religious integration have been placed centre-stage. The aim of this module is to analyse these developments, through the discussion of case-studies and current historiographic and theoretical debates.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Machado  |               |                  |   |

| AN5141 The World of Late Antiquity   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The period between 284 and 700 CE was marked by crucial developments that involved the entire Mediterranean World. This module will explore these developments by focusing on different aspects of the history and archaeology of the period, including the relationship between Romans and Barbarians, the rise of Christianity and the affirmation of orthodoxy, the development of new forms of political power, and the issue of social and economic dynamism (or lack thereof). The aim of this module is to provide a comprehensive view of this period, as well as an opportunity for assessing the different types of evidence available to scholars.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Machado  |               |                  |   |

## Classics - Greek and Latin MLitt & MPhil - 2015/6 - November 2015

| CL5305 Research Training: Special Topic 1  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials.                  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr E Gee  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | Individual tutors assigned as required  |               |                  |        |

| CL5306 Research Training: Special Topic 2  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |        |
| <b>Anti-requisite(s):</b>  | CL5305  |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 x 1-hour tutorials.                               |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr A Long   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | Individual tutors assigned as required  |               |                  |        |

| CL5401 Representations of Women in the Ancient World  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module will examine different forms of evidence for the perceptions of women, usually by men, in the ancient Greek and Roman worlds. Case studies will include Homeric women, Classical Athens and Sparta, queens and powerful women in the Hellenistic world and in the Roman Near East, Republican and Imperial Rome. Methodological issues will include the handling of different kinds of evidence (literary, epigraphic, legal) and influences on modern scholarship on gender. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials.                  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

| CL5425 Classical Reception  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module offers the opportunity to study an increasingly influential sub-discipline of Classics: 'Reception Studies'. The module will examine how and for what purposes classical culture is perceived and transmitted; evaluate theoretical approaches and methods (both historicist and ahistoricist) to reading ancient texts 'against' receiving texts; and test these approaches through targeted examples of the reception of Virgil and Ovid. While tutorial time will be devoted to the literary reception of Augustan epic, students will have the chance in coursework to undertake case-studies in other authors, ancient and modern, and/or to explore 'reception' in non-literary contexts (e.g. art, film, theatre). |  |               |                  |   |
| <b>Programme module type:</b>   | Optional module for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour seminars.                         |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Buckley   |               |                  |   |



Beginners' Language Modules:

| GK1001 Greek Language for Beginners   |  |              |                  |   |
|---|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 7 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am   |              |                  |   |
| This module provides a thorough grounding in the Greek language for beginners or near beginners. It is suitable both for students who intend to take further Greek modules and for those who wish to acquire a basic knowledge of Greek, which is useful for the study of other subjects in the Faculty such as History or English. |  |              |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 classes.  |              |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)                     |              |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Coderch   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Coderch   |              |                  |   |

| GK1002 Greek Literature for Beginners  |  |              |                  |   |
|--|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 7 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am   |              |                  |   |
| This module is designed to follow on from GK1001. As such, GK1002 comprises language classes intended to supplement the topics covered in semester 1 and to prepare students for the challenge of reading and interpreting Greek literature. One prose set text will be studied in the original Greek in such a way as both to enhance the linguistic confidence of students and to explore literary and cultural issues arising from the works. The current set text is a speech by Lysias (written for a sensational murder trial), which opens up a range of themes important for the larger history of Greek literature in its historical context. |  |              |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |              |                  |   |
| <b>Pre-requisite(s):</b>   | GK1001, or equivalent knowledge of Greek.  |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 classes.  |              |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)                     |              |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Coderch   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Coderch   |              |                  |   |

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| <b>GK1005 Greek Language and Literature 1</b>  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 7         | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am   |                      |                  |   |
| <p>This module is designed for students who have already taken ancient Greek to Higher, A level or equivalent standard. Set texts for this module will be studied in the original Greek prose and verse. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek. The overall aims of the module are to build up the confidence of students in reading and interpreting Greek literature in its historical and cultural context. Students will read one work of Greek prose and one work of Greek verse.</p> |  |                      |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                      |                  |   |
| <b>Pre-requisite(s):</b>   | Higher or A-level Greek or equivalent.   |                      |                  |   |
| <b>Anti-requisite(s):</b>  | GK1001   | <b>Required for:</b> | GK1006           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Mantzouranis  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                      |                  |   |

| <b>GK1006 Greek Pastoral and Passion</b>   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 7         | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am   |                      |                  |   |
| <p>This module, designed to follow on from GK1005, will introduce students to two new areas of Greek literature, between which there are interesting and important thematic connections: bucolic or pastoral poetry (the Idylls of Theocritus) and the romantic novel (Longus). Both these set texts will be studied in the original Greek. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek.</p> |  |                      |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                      |                  |   |
| <b>Pre-requisite(s):</b>   | GK1005, Higher or A-level Greek or equivalent.   |                      |                  |   |
| <b>Anti-requisite(s):</b>  | GK1002   | <b>Required for:</b> | GK2001           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Addey   |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                      |                  |   |

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| <b>GK2001 The Landscape of Greek Prose (A)</b>   |  |                           |                    |
|--|--|---------------------------|--------------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> 1 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                    |
| <p>This module, designed to follow on from GK1006, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature.</p> |  |                           |                    |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                    |
| <b>Pre-requisite(s):</b>   | GK1006   | <b>Anti-requisite(s):</b> | GK2003             |
| <b>Required for:</b>   | GK2002   |                           |                    |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                    |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                    |
| <b>Module Co-ordinator:</b>  | Dr J Hesk  |                           |                    |
| <b>Lecturer(s)/Tutor(s):</b>   | `Team taught   |                           |                    |

| <b>GK2002 The Landscape of Greek Poetry (A)</b>  |  |                           |                    |
|--|--|---------------------------|--------------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> 2 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                    |
| <p>This module, designed to follow on from GK2001, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek.</p> |  |                           |                    |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                    |
| <b>Pre-requisite(s):</b>   | GK2001   | <b>Anti-requisite(s):</b> | GK2004             |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                    |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                    |
| <b>Module Co-ordinator:</b>  | Dr K Mantzouranis  |                           |                    |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                    |

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| <b>GK2003 The Landscape of Greek Prose (B)</b>   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                  |   |
| <p>This module, designed to follow on from GK1002, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature.</p> |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>   | GK1002   | <b>Anti-requisite(s):</b> | GK2001           |   |
| <b>Required for:</b>   | GK2004   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Hesk  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                  |   |

| <b>GK2004 The Landscape of Greek Poetry (B)</b>  |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                  |   |
| <p>This module, designed to follow on from GK2003, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek.</p> |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>   | GK2003   | <b>Anti-requisite(s):</b> | GK2002           |   |
| <b>Required for:</b>   | LT3017   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%, 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Mantzouranis  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                  |   |

## Classics - Greek and Latin MLitt & MPhil - 2015/6 - November 2015

| LT1001 Elementary Latin 1   |   |                      |                  |   |
|---|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 7         | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm   |                      |                  |   |
| This module provides a systematic introduction to the Latin language, concentrating on morphology, vocabulary, and basic syntax, and will enable students to read simplified Latin texts and translate sentences from Latin into English and vice versa. It is complemented by LT1002, and will thus give access to Latin at higher levels, but it may also be taken by students whose main interests lie in other areas, such as histories, foreign languages and English. It is also suitable for students who have taken some Latin previously, but not to Higher or A-Level, or who have taken Higher or A-Level Latin on reduced time. |   |                      |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin |                      |                  |   |
| <b>Anti-requisite(s):</b>   | LT1003  | <b>Required for:</b> | LT1002           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 classes.   |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)          |                      |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Coderch  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Coderch  |                      |                  |   |

| LT1002 Elementary Latin 2  |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| This module builds on the work done in LT1001, and its function is to develop knowledge of Latin morphology, syntax and vocabulary and to enable students to read Latin texts. Together with LT1001 it may form a basis for Latin at higher levels, but it will also be useful to students of the histories, foreign languages, English and other subjects. There will be lectures on selected poems of Catullus at the end of the module. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT1001  | <b>Anti-requisite(s):</b> | LT1004           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)          |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Coderch  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Coderch  |                           |                  |   |

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| <b>LT1003 World of Latin 1</b>   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| The aims of this module, like LT1004, are to enhance understanding of Latin grammar and syntax, to increase vocabulary, to give a basic understanding of style, and to develop skills in translating and interpreting literary texts. A selection of classical Latin texts are studied, and student are encouraged and assisted to practice reading independently and in extenso. There will be tutorials to support this work and to help with the translation and appreciation of these and other Latin prose and verse authors. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin                         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | Higher or A-Level Latin   | <b>Anti-requisite(s):</b> | LT1001           |   |
| <b>Required for:</b>   | LT1004  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (2 literary criticisms, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Rees   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

| <b>LT1004 World of Latin 2</b>   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 7              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm   |                           |                  |   |
| This module aims to build on the skills acquired in LT1003, and to introduce students to a wider range of Latin literature. Texts studied may include early or mediaeval Latin, as well as classical literature. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin                         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT1003  | <b>Anti-requisite(s):</b> | LT1002           |   |
| <b>Required for:</b>   | LT2001  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (2 literary criticisms, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Gee  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

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| LT2001 Latin Language and Literature 1  |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm   |                           |                  |   |
| The aim of this module is to foster the student's acquaintance with classical Latin and to explore both prose and verse authors. The authors chosen may vary from year to year. Particular attention is paid to the development of their ideas, literary styles, and genres. There will be lectures on the authors set, seminars to discuss broader themes within the module, and tutorials to monitor and assist progress in study of the language and interpretation of the literature. |   |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin         |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT1004  | <b>Anti-requisite(s):</b> | LT2003           |   |
| <b>Required for:</b>  | LT2002, LT4203  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (essay, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |                           |                  |   |

| LT2002 Latin Language and Literature 2   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 2.00 pm   |                           |                  |   |
| In complement to the programme of LT2001, this module aims to consolidate the student's command of the language in preparation for study at Honours level, and in literature brings the student to further genres and authors, in prose and verse. There will be lectures on the authors set, seminars on broader themes, and, as in LT2001, tutorials to monitor and assist progress in study of the language and interpretation of the literature. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School, except Latin         |                           |                  |   |
| <b>Pre-requisite(s):</b>   | LT2001  | <b>Anti-requisite(s):</b> | LT2004           |   |
| <b>Required for:</b>   | LT4203  |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 - 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40% (essay, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr N Maniotti   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |                           |                  |   |

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| <b>LT2003 Latin in Progress 1</b>   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm  |                           |                  |   |
| Texts and topics for this module will be similar to those for LT2001, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin                        |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT1002   | <b>Anti-requisite(s):</b> | LT2001           |   |
| <b>Required for:</b>  | LT2004   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 - 4 classes per week, plus 8 hours of additional support classes.         |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (1 literary criticism, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| <b>LT2004 Latin in Progress 2</b>   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm  |                           |                  |   |
| In this module the same prescribed texts and topics will be studied as in LT2002, but the length of texts and methods of study will be appropriate to the needs of students who have done the beginners' modules LT1001 and LT1002. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School, except Latin                        |                           |                  |   |
| <b>Pre-requisite(s):</b>  | LT2003   | <b>Anti-requisite(s):</b> | LT2002           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 classes.  |                           |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40% (1 literary criticism, 20%, 2 class tests, 20%) |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr N Manioti   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |



## Masters in Latin

**Postgraduate Diploma:** *(this is also the Taught Element of the MLitt and MPhil programmes)*

60 credits: CL5201

30 credits: LT5001 - LT5098

Either: 30 credits: LT5001 - LT5098, CL5301 - CL5499, AN5101 - AN5199 (excluding AN5099).

Or: 40 credits: GK1001 and GK1002.

With the permission of the Head of School, 40 credits from the following pairs of modules may be substituted for GK1002 and GK1002: {GK1005 and GK1006}, {GK2001 and GK2002}, {GK2003 and GK2004}.

With the permission of the relevant Head(s) of School, up to 30 credits may be taken from other programmes taught by the School of Classics or by other Schools.

**MLitt:** 120 - 130 credits as for the Taught Element plus LT5099.

**MPhil:** 120 - 130 credits as for the Taught Element plus a thesis of not more than 40,000 words.

### Compulsory modules:

| CL5201 Themes and Methods in Classics   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module will provide an introduction to the research opportunities in Classical Studies and Greek and Latin language and literature, with instruction in the skills appropriate to different areas and interests. The topics covered in the module will include: various modern approaches to literature; texts and transmission; translation; reception. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Classical Studies, Greek, Latin and Greek and Latin Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hourly meetings most weeks, plus individual meetings as required.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Long   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |            |

| LT5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor         |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Latin MLitt Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision       |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                    |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Long   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual supervisors assigned as required         |               |                  |            |

### Optional modules – choose 2:

| LT5001 Roman Epic   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | by arrangement.   |               |                  |   |
| This module studies the development of Latin epic from the beginnings to the first century CE. A selection of texts is studied, chosen in consultation between student and supervisor. Topics covered may include the influence of Greek epic upon the Latin writers, and the development of epic in the century after Vergil; and close study will be made of theme and structure, and the style and technique of each poet. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Greek and Latin and Latin Postgraduate Programmes.                         |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Buckley  |               |                  |   |

| LT5016 Latin Didactic Poetry  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module examines the development of one of the major genres of Classical Latin poetry during the late Republic and early empire, with due consideration of the Hellenistic and archaic Greek background. A selection of texts, chosen in consultation between student and supervisor, will be studied, with particular attention to their literary form and background, to the didactic poet's message, and to his self-presentation as an authority and teacher. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional module for Greek and Latin and Latin Postgraduate Programmes.                  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Gee  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Gee  |               |                  |   |

OR with Head of School permission - one of the following may be substituted:

| AN5103 Religion and Society in the Ancient Greek World   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine the role of religious practice and belief in Greek society, from the sixth till the fourth century BCE. It will look at a variety of different cults - from inter-state cults such as Delphi and Olympia, through the level of the polis to family religion - and at a range of different themes: the relationship of religion with politics and polis-ideology, the practice of divination, the belief in the afterlife (among many others). A particular emphasis will be laid on the examination of religious change, placing the sceptical ideas of the fifth century in the context of traditional religious conceptions.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Anderson   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Anderson   |               |                  |   |

| AN5137 Tyranny and Kingship in the Ancient Mediterranean  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module spans Mediterranean history from the seventh to the third century BCE, examining autocracy in its many forms. From Tarquinius Superbus in Rome to Pisistratus in Athens; from Dionysius I to the Roman dictators, the module uses a broad historical scale to pose questions about the nature of rulership and the ways in which individuals wielded power in classical times. What was the difference between a basileus and a tyrannos? What did Dionysius of Halicarnassus mean when he referred to the Roman dictatorship as an 'elective tyranny'? How could a notoriously cruel tyrant like Periander of Corinth gain a posthumous reputation as a lawgiver and sage? By examining instances of sole rule through the works of historians (from Herodotus to Livy) and philosophers (from Plato to Cicero), students will gain an understanding of the workings of political power in antiquity, and the ways in which ancient writers have themselves influenced modern formulations of ancient politics.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

| AN5140 Religion and Society in the Roman Empire   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| The study of Roman religion has attracted enormous attention in recent years. Traditional topics like the importance of rituals and priesthoods, the civic character of ancient religion, and even the impact of the empire on religious life are being revised by recent work. At the same time, issues like the definition of religious identities and the development of networks and other forms of religious integration have been placed centre-stage. The aim of this module is to analyse these developments, through the discussion of case-studies and current historiographic and theoretical debates. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Machado  |               |                  |   |

| AN5141 The World of Late Antiquity  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| The period between 284 and 700 CE was marked by crucial developments that involved the entire Mediterranean World. This module will explore these developments by focusing on different aspects of the history and archaeology of the period, including the relationship between Romans and Barbarians, the rise of Christianity and the affirmation of orthodoxy, the development of new forms of political power, and the issue of social and economic dynamism (or lack thereof). The aim of this module is to provide a comprehensive view of this period, as well as an opportunity for assessing the different types of evidence available to scholars. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek, Greek and Latin, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour tutorials                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Machado  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Machado  |               |                  |   |

| CL5305 Research Training: Special Topic 1   |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |        |
| This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor. |   |               |                  |        |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials.                  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr E Gee  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual tutors assigned as required  |               |                  |        |

| CL5306 Research Training: Special Topic 2   |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |        |
| This module gives students intending to do research the opportunity to conduct an intensive reading programme on an author, genre or topic which is relevant but not central to the intended programme of research, and to develop skills in reading Greek and Latin, in critical interpretation and synthesis. The topic (typically a text or corpus of texts) will be decided in consultation with the appropriate Chairman and the supervisor. |   |               |                  |        |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |        |
| <b>Anti-requisite(s):</b>   | CL5305  |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 x 1-hour tutorials.                               |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr A Long   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Individual tutors assigned as required  |               |                  |        |

| CL5401 Representations of Women in the Ancient World  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module will examine different forms of evidence for the perceptions of women, usually by men, in the ancient Greek and Roman worlds. Case studies will include Homeric women, Classical Athens and Sparta, queens and powerful women in the Hellenistic world and in the Roman Near East, Republican and Imperial Rome. Methodological issues will include the handling of different kinds of evidence (literary, epigraphic, legal) and influences on modern scholarship on gender. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Ancient History, Classical Studies, Greek and Latin, Greek, and Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 30-minute tutorials.                  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Lewis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Lewis  |               |                  |   |

| CL5425 Classical Reception  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module offers the opportunity to study an increasingly influential sub-discipline of Classics: 'Reception Studies'. The module will examine how and for what purposes classical culture is perceived and transmitted; evaluate theoretical approaches and methods (both historicist and ahistoricist) to reading ancient texts 'against' receiving texts; and test these approaches through targeted examples of the reception of Virgil and Ovid. While tutorial time will be devoted to the literary reception of Augustan epic, students will have the chance in coursework to undertake case-studies in other authors, ancient and modern, and/or to explore 'reception' in non-literary contexts (e.g. art, film, theatre). |  |               |                  |   |
| <b>Programme module type:</b>   | Optional module for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Introductory meeting followed by 5 fortnightly 1-hour seminars.                         |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Buckley   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Buckley   |               |                  |   |

## Beginners' Language Modules:

| GK1001 Greek Language for Beginners   |  |              |                  |   |
|---|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 7 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am   |              |                  |   |
| This module provides a thorough grounding in the Greek language for beginners or near beginners. It is suitable both for students who intend to take further Greek modules and for those who wish to acquire a basic knowledge of Greek, which is useful for the study of other subjects in the Faculty such as History or English. |  |              |                  |   |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 classes.  |              |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)                     |              |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Coderch   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Coderch   |              |                  |   |

| GK1002 Greek Literature for Beginners  |  |              |                  |   |
|--|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 7 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am   |              |                  |   |
| This module is designed to follow on from GK1001. As such, GK1002 comprises language classes intended to supplement the topics covered in semester 1 and to prepare students for the challenge of reading and interpreting Greek literature. One prose set text will be studied in the original Greek in such a way as both to enhance the linguistic confidence of students and to explore literary and cultural issues arising from the works. The current set text is a speech by Lysias (written for a sensational murder trial), which opens up a range of themes important for the larger history of Greek literature in its historical context. |  |              |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |              |                  |   |
| <b>Pre-requisite(s):</b>   | GK1001, or equivalent knowledge of Greek.  |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 classes.  |              |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (4 class tests)                     |              |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Coderch   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Coderch   |              |                  |   |

| GK1005 Greek Language and Literature 1  |  |                      |                    |
|---|--|----------------------|--------------------|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 7         | <b>Semester:</b> 1 |
| <b>Planned timetable:</b>   | 10.00 am   |                      |                    |
| This module is designed for students who have already taken ancient Greek to Higher, A level or equivalent standard. Set texts for this module will be studied in the original Greek prose and verse. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek. The overall aims of the module are to build up the confidence of students in reading and interpreting Greek literature in its historical and cultural context. Students will read one work of Greek prose and one work of Greek verse. |  |                      |                    |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                      |                    |
| <b>Pre-requisite(s):</b>  | Higher or A-level Greek or equivalent.   |                      |                    |
| <b>Anti-requisite(s):</b>   | GK1001   | <b>Required for:</b> | GK1006             |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                      |                    |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                      |                    |
| <b>Module Co-ordinator:</b>   | Dr K Mantzouranis  |                      |                    |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                      |                    |

| GK1006 Greek Pastoral and Passion   |  |                      |                    |
|---|--|----------------------|--------------------|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 7         | <b>Semester:</b> 2 |
| <b>Planned timetable:</b>   | 10.00 am   |                      |                    |
| This module, designed to follow on from GK1005, will introduce students to two new areas of Greek literature, between which there are interesting and important thematic connections: bucolic or pastoral poetry (the Idylls of Theocritus) and the romantic novel (Longus). Both these set texts will be studied in the original Greek. Classes will cover both detailed study of the set texts and linguistic/translation exercises designed to enhance students' knowledge of Greek. |  |                      |                    |
| <b>Programme module type:</b>   | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                      |                    |
| <b>Pre-requisite(s):</b>  | GK1005, Higher or A-level Greek or equivalent.   |                      |                    |
| <b>Anti-requisite(s):</b>   | GK1002   | <b>Required for:</b> | GK2001             |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 or 4 classes.   |                      |                    |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                      |                    |
| <b>Module Co-ordinator:</b>   | Dr C Addey   |                      |                    |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                      |                    |



| GK2001 The Landscape of Greek Prose (A)  |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                  |   |
| <p>This module, designed to follow on from GK1006, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature.</p> |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>   | GK1006   | <b>Anti-requisite(s):</b> | GK2003           |   |
| <b>Required for:</b>   | GK2002   |                           |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Hesk  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | `Team taught   |                           |                  |   |

| GK2002 The Landscape of Greek Poetry (A)   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                  |   |
| <p>This module, designed to follow on from GK2001, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek.</p> |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                  |   |
| <b>Pre-requisite(s):</b>   | GK2001   | <b>Anti-requisite(s):</b> | GK2004           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Mantzouranis  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                  |   |

| <b>GK2003 The Landscape of Greek Prose (B)</b>   |  |                           |                    |
|--|--|---------------------------|--------------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> 1 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                    |
| <p>This module, designed to follow on from GK1002, studies a wide range of Greek prose texts. All set texts will be studied in the original Greek. The module starts with the Socratic dialogues of Xenophon, and then turns to Greek oratory, Greek historiography and Greek writing in the Roman empire. The module will illustrate the scope and vitality of the Greek literary tradition, and it will give students a grounding in the main genres of Greek prose writing. Classes will include both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek. The module as a whole is carefully structured so as to integrate linguistic progress with widened horizons in the student's knowledge of Greek literature.</p> |  |                           |                    |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                    |
| <b>Pre-requisite(s):</b>   | GK1002   | <b>Anti-requisite(s):</b> | GK2001             |
| <b>Required for:</b>   | GK2004   |                           |                    |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                    |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%; 3 class tests, 30%)    |                           |                    |
| <b>Module Co-ordinator:</b>  | Dr J Hesk  |                           |                    |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                    |

| <b>GK2004 The Landscape of Greek Poetry (B)</b>  |  |                           |                    |
|--|--|---------------------------|--------------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 8              | <b>Semester:</b> 2 |
| <b>Planned timetable:</b>  | 10.00 am   |                           |                    |
| <p>This module, designed to follow on from GK2003, offers a carefully balanced combination of literary and linguistic study. Students will study a diverse range of ancient poetry in the original Greek, starting with Homer's Iliad. It then introduces students to key genres of the Greek poetic tradition, including lyric, elegy and drama. Classes will cover both detailed study of the set texts in their cultural context and linguistic/translation exercises designed to enhance students' knowledge of Greek.</p> |  |                           |                    |
| <b>Programme module type:</b>  | Optional for all Taught Postgraduate Programmes in the School of Classics except Greek |                           |                    |
| <b>Pre-requisite(s):</b>   | GK2003   | <b>Anti-requisite(s):</b> | GK2002             |
| <b>Required for:</b>   | LT3017   |                           |                    |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 or 4 classes.   |                           |                    |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50% (essay, 20%, 3 class tests, 30%)    |                           |                    |
| <b>Module Co-ordinator:</b>  | Dr K Mantzouranis  |                           |                    |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |                           |                    |

## School of Computer Science

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **Postgraduate Diploma:**

*(this is also the Taught element of the MLitt and MPhil programme):*

**Advanced Computer Science** ([link](#))

**Artificial Intelligence** ([link](#))

**Computing and Information Technology** ([link](#))

**Human Computer Interaction** ([link](#))

**Information Technology** ([link](#))

**Networks and Distributed Systems** ([link](#))

**Management and Information Technology** (*see section 1* )

**Software Engineering** ([link](#))

#### **MSc:**

**Advanced Computer Science** ([link](#))

**Artificial Intelligence** ([link](#))

**Computing and Information Technology** ([link](#))

**Dependable Software Engineering Erasmus Mundus** ([link](#))

**Human Computer Interaction** ([link](#))

**Information Technology** ([link](#))

**Networks and Distributed Systems** ([link](#))

**Management and Information Technology** (*see section 1* )

**Software Engineering** ([link](#))

#### **MPhil:**

**Computer Science** ([link](#))

**Artificial Intelligence** ([link](#))

**Computing and Information Technology** ([link](#))

**Human Computer Interaction** ([link](#))

**Information Technology** ([link](#))

**Networks and Distributed Systems** ([link](#))

**Management and Information Technology** (*see section 1* )

**Software Engineering** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Advanced Computer Science

### Programme Requirements

*Taught Element, and PG Diploma in Advanced Computer Science:*

120 credits:

- IS5101
- CS5001
- up to 30 credits from CS4100 - CS4450, subject to appropriate experience
- remaining credits from IS5102 - IS5150, CS5003 - CS5089, ID5059

**MSc:**

120 credits from Taught Element plus CS5098 or CS5099

**MPhil in Computer Science:**

120 credits from Taught Element of Advanced Computer Science plus a thesis of up to 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| IS5101 Masters Core Skills   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| <p>This module equips students with essential skills for completing an MSc in the School of Computer Science. Topics include: technical writing for Computer Science and Information Technology; use of bibliographic and referencing software; presentation skills; critical analysis of written work; generic research skills including framing research hypotheses, designing and conducting experiments, use of survey tools and gathering, analysing and presenting data; understanding basic statistics; use of project planning techniques; awareness of professional and ethical issues in research activities; carrying out a literature review; and awareness of what constitutes academic misconduct. Skills in these areas are reinforced through practical assignments.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for all Postgraduate Programmes except Erasmus Mundus Dependable Software Systems. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.                   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |            |

| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes.<br>Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

**Compulsory module for MSc:**

**EITHER**

| CS5098 Group Project and Dissertation in Computer Science  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| This module is a group-based MSc project on a topic in Computer Science. It results in an individual dissertation of no more than 15,000 words submitted by each student. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work. |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Computing & IT, in Human Computer Interaction, in Networks and Distributed Systems, Software Engineering Postgraduate Programmes. |               |                  |        |
| <b>Pre-requisite(s):</b>   | Admission to dissertation phase of MSc and permission of the Head of School   |               |                  |        |
| <b>Anti-requisite(s):</b>  | CS5099  |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Meetings with supervisor.  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |        |

OR

| CS5099 Dissertation in Computer Science   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| This module is an individually supervised MSc project on a topic in Computer Science. It results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. Students are required to give a presentation of their work. |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Human Computer Interaction, in Networks and Distributed Systems, and Software Engineering Postgraduate Programmes. |               |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc   |               |                  |        |
| <b>Anti-requisite(s):</b>   | CS5098   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meeting with supervisor.  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |        |

**Optional modules:**

| CS5003 Masters Programming Projects   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Variable  |                           |                  |   |
| This module reinforces key programming skills gained in CS5002, by means of a series of coursework assignments posed as small programming projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Computing and Information Technology Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | CS5002  | <b>Anti-requisite(s):</b> | IS5108           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes.           |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS5010 Artificial Intelligence Principles  |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown. |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3105  | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5011 Artificial Intelligence Practice   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5010   | <b>Required for:</b> | CS5012, CS5019   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |



## Computer Science - Advanced Computer Science MSc & MPhil - 2015/6 - November 2015

| CS5012 Language and Computation  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3052 or CS5010  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5021 Advanced Networks   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic. |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Networks and Distributed Systems Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>  | CS5001  | <b>Required for:</b> | CS5023, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5023 Mobile and Wireless Networks  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems. |  |               |                  |   |
| <b>Programme module type:</b>  | Either CS4103 or CS5023 is compulsory for Networks and Distributed Systems Postgraduate Programmes<br>Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3102 or CS5021   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5030 Software Engineering Principles   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>   | as co-requisite for CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5031 Software Engineering Practice   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                        |   |
| This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                        |   |
| <b>Co-requisite(s):</b>  | CS5001, CS5030  | <b>Required for:</b> | CS5032, CS5033, CS5039 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5032 Critical Systems Engineering  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5033 Software Architecture  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5040 Human Computer Interaction Principles and Methods   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| <p>This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI.</p> |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3106  | <b>Required for:</b> | CS5042, CS5044   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5041 Interactive Software and Hardware   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science.   |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5042 User-Centred Interaction Design  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 practicals and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 85%, Presentation = 15%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5044 Information Visualisation and Visual Analytics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.</p> <p>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                             |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5102 Database Management Systems   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces the core principles and techniques required in the design and implementation of database systems. With a focus on relational database management systems, topics include database design theory; E-R modelling; data definition and manipulation languages; database security and administration. There is a significant practical element to the module, which will require students to build and manipulate a database. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5103 Web Technologies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces the principles and techniques involved in the design and implementation of web applications. A web application is a collection of web pages that interact with the user, with each other, and with various resources on a web server, including databases. There is a significant practical element to the module, which will require students to build and manipulate dynamic web pages. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5104 Information Security Management   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module reviews key theoretical and practical aspects of Information Security Management. The module content covers higher-level technical and theoretical issues as well as management issues such as organisational, planning, certification, auditing and governance. From the student's perspective the module introduces students to a topical field of business and IT concern via varied learning styles and in depth consideration of current issues, standards and scenarios. The module uses both block learning and individual self-learning. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Anti-requisite(s):</b>  | CS4203  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5105 Network Systems Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module looks at the history of computer networks, examines how computer networks function, and surveys emerging and future networking technologies. Networked computer systems are pervasive in every walk of life. Today's mobile phones are more powerful computing devices than the mainframes of thirty years ago. Few organizations could function without computer networks. It gives insights into computer networking from the perspectives of developers, managers and users. Students taking this module will gain a core understanding of networking principles and protocols for wired and wireless networking. They will learn about the main aspects of network systems management, including network monitoring and configuration management, network service management, and firewall management.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5106 Green Information Technology  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces students to a variety of topics and technologies in the area of Green IT and Sustainable IT. Students investigate the way in which technology contributes towards global emissions as well as its potential to enable a positive sustainable future. This includes the responsibilities and actions of IT users, as well as service providers. The module covers key factors driving Green IT from a technical, political, financial, social and legal perspective, and includes the IT life cycle, approaches to product design and the provision of IT services. Students gain understanding and insight into current issues related to sustainable IT usage and future development.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars and tutorials                    |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                         |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5108 Information Technology Projects  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module reinforces information technology and project management skills gained during semester 1, by means of a selection of coursework assignments posed as information technology projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS5003   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes           |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| ID5059 Knowledge Discovery and Datamining   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes.<br>Compulsory for Applied Statistics and Datamining Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |



| CS4102 Computer Graphics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamental concepts of computer graphics, and develops the ability to apply the concepts to the generation of realistic, synthetic images of 3D objects and scenes. On completion of the module, students should be competent to undertake many tasks in computer graphics, and should have an understanding of the theory underlying many of the relevant techniques. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   |  |               |                  |   |

| CS4103 Distributed Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamentals of distributed systems, with reference to system models, programming languages, algorithmic techniques, concurrency and correctness. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4201 Programming Language Design and Implementation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module studies the design and implementation of programming languages. Topics include language design principles, abstract syntax, evaluation mechanisms, binding, type systems, polymorphism, data encapsulation, exceptions, formal definition of programming languages, compiling techniques, abstract machine design, run-time systems and garbage collection. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4202 Computer Architecture   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module studies the principles and technology of modern computer architectures, with particular emphasis on performance and acceleration. Topics include the CPU, memory, interconnect architectures, performance concepts and programming models. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |                           |                  |   |
| <b>Pre-requisite(s):</b>   | CS3104   | <b>Anti-requisite(s):</b> |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS4203 Computer Security   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module introduces the basic concepts of computer security and cryptography, common attacks and defences against them, and relevant legal and policy frameworks. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |                           |                  |   |
| <b>Pre-requisite(s):</b>   | (CS2001 or CS2101) and CS2002  | <b>Anti-requisite(s):</b> | IS5104           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS4204 Concurrency and Multi-Core Architectures   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module presents the key concepts of programming multi-core/many-core and other parallel architectures, ranging from the identification and use of parallel patterns; the use of structured parallelism to implement task and data parallelism; key implementation issues, including task identification, granularity, scheduling, threads, garbage collection, task placement, locality; performance monitoring and debugging. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4302 Multimedia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module introduces the concepts of analogue and digital media, and analyses techniques for encoding, manipulating, compressing, and transmitting media based on text, audio, images, and moving images, as well as their connection with human perception. Within the context of networked multimedia, it presents issues and solutions involved in transporting time-sensitive data across computer networks. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4303 Video Games  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module builds on the general-purpose programming abilities acquired earlier, introducing games-specific techniques and material. Computer games are now a bigger industry than films, yet they are continuing to develop. While the budget for a new game may rival that of a Hollywood blockbuster, there is also a growing demand for lower octane coffee-break games that can be accessed for short periods in a browser, and for games that can be played on-the-go with a mobile device. Games programming skills are developed through lectures and laboratories, culminating in the creation of actual games. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4402 Constraint Programming   |   |  |                    |
|---|---|--|--------------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 10                              | <b>Semester:</b> 2 |
| <b>Planned timetable:</b>   | To be arranged.   |  |                    |
| This module introduces constraint-based reasoning as a powerful mechanism for knowledge representation and inference. It provides a thorough grounding in the constraint satisfaction/constrained optimisation problem formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a commercial solver. |   |  |                    |
| <b>Programme module type:</b>   | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme and other Postgraduate Programmes in the School |  |                    |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.  |  |                    |
|   | <b>Scheduled learning:</b> 28 hours   | <b>Guided independent study:</b> 122 hours |                    |
| <b>Assessment pattern:</b>  | <b>As defined by QAA:</b><br>Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%  |  |                    |
|   | <b>As used by St Andrews:</b><br>2-hour Written Examination = 60%, Coursework = 40%   |  |                    |
| <b>Re-Assessment:</b>   | 2-hour Written Examination = 60%, Existing Coursework = 40%   |  |                    |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk  |  |                    |

## Masters in Artificial Intelligence

### Programme Requirements

*Taught Element, and PG Diploma in Artificial Intelligence:*

120 credits:

- IS5101
- CS5001
- CS5010
- CS5011
- CS4402 **or** CS5012
- in total, up to 30 credits from CS4100 - CS4450, subject to appropriate experience
- remaining credits from IS5102 - IS5150, CS5003 - CS5089, ID5059

#### **MSc:**

120 credits from Taught Element plus CS5098 **or** CS5099, the topic being in Artificial Intelligence

#### **MPhil:**

120 credits from Taught Element of Artificial Intelligence plus a 40,000-word thesis

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| IS5101 Masters Core Skills  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module equips students with essential skills for completing an MSc in the School of Computer Science. Topics include: technical writing for Computer Science and Information Technology; use of bibliographic and referencing software; presentation skills; critical analysis of written work; generic research skills including framing research hypotheses, designing and conducting experiments, use of survey tools and gathering, analysing and presenting data; understanding basic statistics; use of project planning techniques; awareness of professional and ethical issues in research activities; carrying out a literature review; and awareness of what constitutes academic misconduct. Skills in these areas are reinforced through practical assignments. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all Postgraduate Programmes except Erasmus Mundus Dependable Software Systems. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.                   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |            |

| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5010 Artificial Intelligence Principles  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3105   | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5011 Artificial Intelligence Practice   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5010   | <b>Required for:</b> | CS5012, CS5019   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

You must take one, but can take both of the following:

| CS5012 Language and Computation  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3052 or CS5010  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4402 Constraint Programming   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module introduces constraint-based reasoning as a powerful mechanism for knowledge representation and inference. It provides a thorough grounding in the constraint satisfaction/constrained optimisation problem formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a commercial solver. |   |               |                  |   |
| <b>Programme module type:</b>   | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme and other Postgraduate Programmes in the School |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  |   |               |                  |   |

**Compulsory module for MSc:**

**EITHER**

| CS5098 Group Project and Dissertation in Computer Science   |   |                           |                  |        |
|---|---|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.   |                           |                  |        |
| <p>This module is a group-based MSc project on a topic in Computer Science. It results in an individual dissertation of no more than 15,000 words submitted by each student. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work.</p> |   |                           |                  |        |
| <b>Programme module type:</b>   | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Computing & IT, in Human Computer Interaction, in Networks and Distributed Systems, Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc and permission of the Head of School   | <b>Anti-requisite(s):</b> | CS5099           |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meetings with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |        |

**OR**

| CS5099 Dissertation in Computer Science  |  |                           |                  |        |
|--|--|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |        |
| <p>This module is an individually supervised MSc project on a topic in Computer Science. It results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. Students are required to give a presentation of their work.</p> |  |                           |                  |        |
| <b>Programme module type:</b>  | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Human Computer Interaction, in Networks and Distributed Systems, and Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>   | Admission to dissertation phase of MSc   | <b>Anti-requisite(s):</b> | CS5098           |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Meeting with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |        |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                           |                  |        |



Optional modules:

| CS5003 Masters Programming Projects   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Variable  |                           |                  |   |
| This module reinforces key programming skills gained in CS5002, by means of a series of coursework assignments posed as small programming projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Computing and Information Technology Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | CS5002  | <b>Anti-requisite(s):</b> | IS5108           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes.           |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS5019 Artificial Intelligence (Special Subject)  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |                           |                  |   |
| This module is a guided reading module on any aspect of Artificial Intelligence not covered by other available modules. It is intended only for MSc students in Artificial Intelligence, for whom it is particularly appropriate to deliver an individually designed programme of study in a specialist area of Artificial Intelligence not covered by other modules. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for Artificial Intelligence Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | the consent of the Head of School                            | <b>Anti-requisite(s):</b> | CS5029, CS5039   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Tutorials and practical classes.      |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk                            |                           |                  |   |

| CS5021 Advanced Networks   |   |                      |                    |
|--|---|----------------------|--------------------|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                    |
| This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic. |   |                      |                    |
| <b>Programme module type:</b>  | Compulsory for Networks and Distributed Systems Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                    |
| <b>Co-requisite(s):</b>  | CS5001  | <b>Required for:</b> | CS5023, CS5029     |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                    |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |                      |                    |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                    |

| CS5023 Mobile and Wireless Networks  |  |               |                    |
|--|--|---------------|--------------------|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                    |
| This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems. |  |               |                    |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science         |               |                    |
| <b>Pre-requisite(s):</b>   | CS3102 or CS5021   |               |                    |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes. |               |                    |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                                 |               |                    |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                    |

| CS5030 Software Engineering Principles  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>  | as co-requisite for CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5031 Software Engineering Practice  |   |                      |                        |   |
|---|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |                      |                        |   |
| <p>This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle.</p> |   |                      |                        |   |
| <b>Programme module type:</b>   | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                        |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5030  | <b>Required for:</b> | CS5032, CS5033, CS5039 |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                        |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5032 Critical Systems Engineering  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science         |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                                 |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5033 Software Architecture  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS3051 or CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5040 Human Computer Interaction Principles and Methods   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| <p>This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI.</p> |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3106   | <b>Required for:</b> | CS5042, CS5044   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, practical classes and tutorials.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5041 Interactive Software and Hardware   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5042 User-Centred Interaction Design  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 practicals and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 85%, Presentation = 15%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5044 Information Visualisation and Visual Analytics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.</p> <p>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes                                       |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                             |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5102 Database Management Systems   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces the core principles and techniques required in the design and implementation of database systems. With a focus on relational database management systems, topics include database design theory; E-R modelling; data definition and manipulation languages; database security and administration. There is a significant practical element to the module, which will require students to build and manipulate a database. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5103 Web Technologies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces the principles and techniques involved in the design and implementation of web applications. A web application is a collection of web pages that interact with the user, with each other, and with various resources on a web server, including databases. There is a significant practical element to the module, which will require students to build and manipulate dynamic web pages. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5104 Information Security Management   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module reviews key theoretical and practical aspects of Information Security Management. The module content covers higher-level technical and theoretical issues as well as management issues such as organisational, planning, certification, auditing and governance. From the student's perspective the module introduces students to a topical field of business and IT concern via varied learning styles and in depth consideration of current issues, standards and scenarios. The module uses both block learning and individual self-learning. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Anti-requisite(s):</b>  | CS4203  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5105 Network Systems Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module looks at the history of computer networks, examines how computer networks function, and surveys emerging and future networking technologies. Networked computer systems are pervasive in every walk of life. Today's mobile phones are more powerful computing devices than the mainframes of thirty years ago. Few organizations could function without computer networks. It gives insights into computer networking from the perspectives of developers, managers and users. Students taking this module will gain a core understanding of networking principles and protocols for wired and wireless networking. They will learn about the main aspects of network systems management, including network monitoring and configuration management, network service management, and firewall management.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5106 Green Information Technology  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces students to a variety of topics and technologies in the area of Green IT and Sustainable IT. Students investigate the way in which technology contributes towards global emissions as well as its potential to enable a positive sustainable future. This includes the responsibilities and actions of IT users, as well as service providers. The module covers key factors driving Green IT from a technical, political, financial, social and legal perspective, and includes the IT life cycle, approaches to product design and the provision of IT services. Students gain understanding and insight into current issues related to sustainable IT usage and future development.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars and tutorials                    |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                         |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5108 Information Technology Projects   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module reinforces information technology and project management skills gained during semester 1, by means of a selection of coursework assignments posed as information technology projects. These are designed to offer increasing depth and scope for creativity as the module progresses.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Anti-requisite(s):</b>  | CS5003   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes           |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |



| ID5059 Knowledge Discovery and Datamining  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| <p>Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes.<br>Compulsory for Applied Statistics and Datamining Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>  | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4102 Computer Graphics  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module covers the fundamental concepts of computer graphics, and develops the ability to apply the concepts to the generation of realistic, synthetic images of 3D objects and scenes. On completion of the module, students should be competent to undertake many tasks in computer graphics, and should have an understanding of the theory underlying many of the relevant techniques.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  |  |               |                  |   |

| CS4103 Distributed Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamentals of distributed systems, with reference to system models, programming languages, algorithmic techniques, concurrency and correctness. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4201 Programming Language Design and Implementation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module studies the design and implementation of programming languages. Topics include language design principles, abstract syntax, evaluation mechanisms, binding, type systems, polymorphism, data encapsulation, exceptions, formal definition of programming languages, compiling techniques, abstract machine design, run-time systems and garbage collection. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4202 Computer Architecture   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module studies the principles and technology of modern computer architectures, with particular emphasis on performance and acceleration. Topics include the CPU, memory, interconnect architectures, performance concepts and programming models. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |                           |                  |   |
| <b>Pre-requisite(s):</b>   | CS3104   | <b>Anti-requisite(s):</b> |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS4203 Computer Security   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module introduces the basic concepts of computer security and cryptography, common attacks and defences against them, and relevant legal and policy frameworks. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |                           |                  |   |
| <b>Pre-requisite(s):</b>   | (CS2001 or CS2101) and CS2002  | <b>Anti-requisite(s):</b> | IS5104           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS4204 Concurrency and Multi-Core Architectures   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module presents the key concepts of programming multi-core/many-core and other parallel architectures, ranging from the identification and use of parallel patterns; the use of structured parallelism to implement task and data parallelism; key implementation issues, including task identification, granularity, scheduling, threads, garbage collection, task placement, locality; performance monitoring and debugging. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4302 Multimedia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module introduces the concepts of analogue and digital media, and analyses techniques for encoding, manipulating, compressing, and transmitting media based on text, audio, images, and moving images, as well as their connection with human perception. Within the context of networked multimedia, it presents issues and solutions involved in transporting time-sensitive data across computer networks. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4303 Video Games   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module builds on the general-purpose programming abilities acquired earlier, introducing games-specific techniques and material. Computer games are now a bigger industry than films, yet they are continuing to develop. While the budget for a new game may rival that of a Hollywood blockbuster, there is also a growing demand for lower octane coffee-break games that can be accessed for short periods in a browser, and for games that can be played on-the-go with a mobile device. Games programming skills are developed through lectures and laboratories, culminating in the creation of actual games.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

## Masters in Computing and Information Technology

### Programme Requirements

*Taught Element, and PG Diploma in Computing and Information Technology:*

120 credits:

- IS5101
- CS5001 or CS5002
- CS5003
- up to 30 credits from CS4100 - CS4450, subject to appropriate experience
- remaining credits from IS5102 - IS5150, CS5010 - CS5089, ID5059

**MSc:**

120 credits from Taught Element, plus IS5198 or IS5199 or CS5098 or CS5099

**MPhil:**

120 credits from Taught Element of Computing and Information Technology plus a 40,000-word thesis

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| IS5101 Masters Core Skills   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| <p>This module equips students with essential skills for completing an MSc in the School of Computer Science. Topics include: technical writing for Computer Science and Information Technology; use of bibliographic and referencing software; presentation skills; critical analysis of written work; generic research skills including framing research hypotheses, designing and conducting experiments, use of survey tools and gathering, analysing and presenting data; understanding basic statistics; use of project planning techniques; awareness of professional and ethical issues in research activities; carrying out a literature review; and awareness of what constitutes academic misconduct. Skills in these areas are reinforced through practical assignments.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for all Postgraduate Programmes except Erasmus Mundus Dependable Software Systems. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.                   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |            |

EITHER

| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes.<br>Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

OR

| CS5002 Programming Principles and Practice   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Variable   |                      |                  |   |
| This module introduces computational thinking and problem solving skills to students who have no or little previous programming experience. It covers general programming concepts used in the development of software applications, such as data structures, functions, choice, iteration, recursion and input/output. An easy-to-learn programming language is used to illustrate these concepts, and programming skills are reinforced through practical assignments. |  |                      |                  |   |
| <b>Programme module type:</b>  | Either CS5002 or CS5001 is compulsory for Computing and Information Technology Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS5001   | <b>Required for:</b> | CS5003           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5003 Masters Programming Projects   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Variable  |                           |                  |   |
| This module reinforces key programming skills gained in CS5002, by means of a series of coursework assignments posed as small programming projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Computing and Information Technology Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | CS5002  | <b>Anti-requisite(s):</b> | IS5108           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes.           |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |   |

### Compulsory Module for MSc - one of:

| CS5098 Group Project and Dissertation in Computer Science  |   |                           |                  |        |
|--|---|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | To be arranged.   |                           |                  |        |
| This module is a group-based MSc project on a topic in Computer Science. It results in an individual dissertation of no more than 15,000 words submitted by each student. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work. |   |                           |                  |        |
| <b>Programme module type:</b>  | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Computing & IT, in Human Computer Interaction, in Networks and Distributed Systems, Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>   | Admission to dissertation phase of MSc and permission of the Head of School   | <b>Anti-requisite(s):</b> | CS5099           |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Meetings with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                           |                  |        |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                           |                  |        |

| CS5099 Dissertation in Computer Science   |  |                           |                  |        |
|---|--|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.  |                           |                  |        |
| This module is an individually supervised MSc project on a topic in Computer Science. It results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. Students are required to give a presentation of their work. |  |                           |                  |        |
| <b>Programme module type:</b>   | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Human Computer Interaction, in Networks and Distributed Systems, and Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc   | <b>Anti-requisite(s):</b> | CS5098           |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meeting with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                           |                  |        |

| IS5198 Group Project and Dissertation in Information Technology   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| This module is a group-based MSc project on an approved topic in Information Technology which shows appropriate competences in the field. It results in an individual dissertation of no more than 15,000 words submitted by each student. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, the development of a software system or skilled use of one or more applications, a critical analysis and evaluation of the project outputs. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work. |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Information Technology, Computing and Information Technology MSc Postgraduate Programmes. |               |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc and the consent of the Head of School                           |               |                  |        |
| <b>Anti-requisite(s):</b>   | IS5199   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meeting with supervisor.  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |        |



| IS5199 Dissertation in Information Technology  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| <p>This module is an individually supervised MSc project on an approved topic in Information Technology which shows appropriate competences in the field. The project results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, the development of a software system or skilled use of one or more applications, a critical analysis and evaluation of the project outputs. Students are required to give a presentation of their work.</p> |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Information Technology, Computing and Information Technology MSc Postgraduate Programmes. |               |                  |        |
| <b>Pre-requisite(s):</b>   | Admission to dissertation phase of the MSc   |               |                  |        |
| <b>Anti-requisite(s):</b>  | IS5198   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Meeting with supervisor   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |        |

### Optional modules:

| CS5010 Artificial Intelligence Principles   |   |                      |                  |   |
|---|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |                      |                  |   |
| <p>This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown.</p> |   |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science. |                      |                  |   |
| <b>Anti-requisite(s):</b>   | CS3105  | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5011 Artificial Intelligence Practice   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5010   | <b>Required for:</b> | CS5012, CS5019   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5012 Language and Computation  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3052 or CS5010  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5021 Advanced Networks   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic. |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Networks and Distributed Systems Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>  | CS5001  | <b>Required for:</b> | CS5023, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5023 Mobile and Wireless Networks  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems. |  |               |                  |   |
| <b>Programme module type:</b>  | Either CS4103 or CS5023 is compulsory for Networks and Distributed Systems Postgraduate Programmes<br>Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3102 or CS5021   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5030 Software Engineering Principles   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>   | as co-requisite for CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5031 Software Engineering Practice  |   |                      |                        |
|---|---|----------------------|------------------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11        | <b>Semester:</b> 1     |
| <b>Planned timetable:</b>   | To be arranged.   |                      |                        |
| <p>This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle.</p> |   |                      |                        |
| <b>Programme module type:</b>   | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                        |
| <b>Co-requisite(s):</b>   | CS5001, CS5030  | <b>Required for:</b> | CS5032, CS5033, CS5039 |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                      |                        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                      |                        |

| CS5032 Critical Systems Engineering  |  |               |                    |
|--|--|---------------|--------------------|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                    |
| <p>This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation.</p> |  |               |                    |
| <b>Programme module type:</b>  | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                    |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031   |               |                    |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                    |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                    |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                    |

| CS5033 Software Architecture  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5040 Human Computer Interaction Principles and Methods   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| <p>This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI.</p> |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Human Computer Interaction Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3106   | <b>Required for:</b> | CS5042, CS5044   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, practical classes and tutorials.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5041 Interactive Software and Hardware  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science.   |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5042 User-Centred Interaction Design  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 practicals and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 85%, Presentation = 15%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5044 Information Visualisation and Visual Analytics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.</p> <p>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                             |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5102 Database Management Systems  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the core principles and techniques required in the design and implementation of database systems. With a focus on relational database management systems, topics include database design theory; E-R modelling; data definition and manipulation languages; database security and administration. There is a significant practical element to the module, which will require students to build and manipulate a database.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5103 Web Technologies   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the principles and techniques involved in the design and implementation of web applications. A web application is a collection of web pages that interact with the user, with each other, and with various resources on a web server, including databases. There is a significant practical element to the module, which will require students to build and manipulate dynamic web pages.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5104 Information Security Management   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module reviews key theoretical and practical aspects of Information Security Management. The module content covers higher-level technical and theoretical issues as well as management issues such as organisational, planning, certification, auditing and governance. From the student's perspective the module introduces students to a topical field of business and IT concern via varied learning styles and in depth consideration of current issues, standards and scenarios. The module uses both block learning and individual self-learning. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Anti-requisite(s):</b>  | CS4203  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5105 Network Systems Management  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module looks at the history of computer networks, examines how computer networks function, and surveys emerging and future networking technologies. Networked computer systems are pervasive in every walk of life. Today's mobile phones are more powerful computing devices than the mainframes of thirty years ago. Few organizations could function without computer networks. It gives insights into computer networking from the perspectives of developers, managers and users. Students taking this module will gain a core understanding of networking principles and protocols for wired and wireless networking. They will learn about the main aspects of network systems management, including network monitoring and configuration management, network service management, and firewall management. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5106 Green Information Technology   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module introduces students to a variety of topics and technologies in the area of Green IT and Sustainable IT. Students investigate the way in which technology contributes towards global emissions as well as its potential to enable a positive sustainable future. This includes the responsibilities and actions of IT users, as well as service providers. The module covers key factors driving Green IT from a technical, political, financial, social and legal perspective, and includes the IT life cycle, approaches to product design and the provision of IT services. Students gain understanding and insight into current issues related to sustainable IT usage and future development. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars and tutorials                    |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                         |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |



| IS5108 Information Technology Projects  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module reinforces information technology and project management skills gained during semester 1, by means of a selection of coursework assignments posed as information technology projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS5003   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes           |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| ID5059 Knowledge Discovery and Datamining   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes.<br>Compulsory for Applied Statistics and Datamining Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4102 Computer Graphics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamental concepts of computer graphics, and develops the ability to apply the concepts to the generation of realistic, synthetic images of 3D objects and scenes. On completion of the module, students should be competent to undertake many tasks in computer graphics, and should have an understanding of the theory underlying many of the relevant techniques. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4103 Distributed Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamentals of distributed systems, with reference to system models, programming languages, algorithmic techniques, concurrency and correctness. |  |               |                  |   |
| <b>Programme module type:</b>  | Either CS4103 or CS5023 is compulsory for Networks and Distributed Systems Postgraduate Programmes<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4201 Programming Language Design and Implementation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module studies the design and implementation of programming languages. Topics include language design principles, abstract syntax, evaluation mechanisms, binding, type systems, polymorphism, data encapsulation, exceptions, formal definition of programming languages, compiling techniques, abstract machine design, run-time systems and garbage collection. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4202 Computer Architecture   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module studies the principles and technology of modern computer architectures, with particular emphasis on performance and acceleration. Topics include the CPU, memory, interconnect architectures, performance concepts and programming models. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |                           |                  |   |
| <b>Pre-requisite(s):</b>   | CS3104   | <b>Anti-requisite(s):</b> |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

## Computer Science - Computing and Information Technology MSc & MPhil - 2015/6 - Nov 2015

| CS4203 Computer Security   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module introduces the basic concepts of computer security and cryptography, common attacks and defences against them, and relevant legal and policy frameworks. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |                           |                  |   |
| <b>Pre-requisite(s):</b>   | (CS2001 or CS2101) and CS2002  | <b>Anti-requisite(s):</b> | IS5104           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS4204 Concurrency and Multi-Core Architectures   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module presents the key concepts of programming multi-core/many-core and other parallel architectures, ranging from the identification and use of parallel patterns; the use of structured parallelism to implement task and data parallelism; key implementation issues, including task identification, granularity, scheduling, threads, garbage collection, task placement, locality; performance monitoring and debugging. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4302 Multimedia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module introduces the concepts of analogue and digital media, and analyses techniques for encoding, manipulating, compressing, and transmitting media based on text, audio, images, and moving images, as well as their connection with human perception. Within the context of networked multimedia, it presents issues and solutions involved in transporting time-sensitive data across computer networks. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4303 Video Games   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module builds on the general-purpose programming abilities acquired earlier, introducing games-specific techniques and material. Computer games are now a bigger industry than films, yet they are continuing to develop. While the budget for a new game may rival that of a Hollywood blockbuster, there is also a growing demand for lower octane coffee-break games that can be accessed for short periods in a browser, and for games that can be played on-the-go with a mobile device. Games programming skills are developed through lectures and laboratories, culminating in the creation of actual games.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4402 Constraint Programming  |   |               |  |   |
|--|---|---------------|--|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 10 | <b>Semester:</b>                           | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |  |   |
| <p>This module introduces constraint-based reasoning as a powerful mechanism for knowledge representation and inference. It provides a thorough grounding in the constraint satisfaction/constrained optimisation problem formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a commercial solver.</p> |   |               |  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme and other Postgraduate Programmes in the School |               |  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.  |               |  |   |
|  | <b>Scheduled learning:</b> 28 hours   |               | <b>Guided independent study:</b> 122 hours |   |
| <b>Assessment pattern:</b>   | <b>As defined by QAA:</b><br>Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%  |               |  |   |
|  | <b>As used by St Andrews:</b><br>2-hour Written Examination = 60%, Coursework = 40%   |               |  |   |
| <b>Re-Assessment:</b>  | 2-hour Written Examination = 60%, Existing Coursework = 40%   |               |  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk  |               |  |   |

## Masters in Human Computer Interaction

### Programme Requirements

*Taught Element, and PG Diploma in Human Computer Interaction:*

120 credits:

- IS5101
- CS5001
- CS5040
- CS5041
- CS5042 or CS5044
- up to 30 credits from CS4100 - CS4450, subject to appropriate experience
- remaining credits from IS5102 - IS5150, CS5003 - CS5089, ID5059

**MSc:**

120 credits from Taught Element, plus CS5098 or CS5099, the topic being in Human Computer Interaction

**MPhil:**

120 credits from Taught Element of Human Computer Interaction plus a 40,000-word thesis

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| IS5101 Masters Core Skills  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module equips students with essential skills for completing an MSc in the School of Computer Science. Topics include: technical writing for Computer Science and Information Technology; use of bibliographic and referencing software; presentation skills; critical analysis of written work; generic research skills including framing research hypotheses, designing and conducting experiments, use of survey tools and gathering, analysing and presenting data; understanding basic statistics; use of project planning techniques; awareness of professional and ethical issues in research activities; carrying out a literature review; and awareness of what constitutes academic misconduct. Skills in these areas are reinforced through practical assignments. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all Postgraduate Programmes except Erasmus Mundus Dependable Software Systems. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.                   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |            |

| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5040 Human Computer Interaction Principles and Methods  |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>   | CS3106   | <b>Required for:</b> | CS5042, CS5044   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.  |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5041 Interactive Software and Hardware  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

You must take one, but can take both of the following:

| CS5042 User-Centred Interaction Design  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 practicals and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 85%, Presentation = 15%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5044 Information Visualisation and Visual Analytics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.</p> <p>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                             |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

### Compulsory module for MSc:

#### EITHER

| CS5098 Group Project and Dissertation in Computer Science   |   |                           |                  |        |
|---|---|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.   |                           |                  |        |
| <p>This module is a group-based MSc project on a topic in Computer Science. It results in an individual dissertation of no more than 15,000 words submitted by each student. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work.</p> |   |                           |                  |        |
| <b>Programme module type:</b>   | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Computing & IT, in Human Computer Interaction, in Networks and Distributed Systems, Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc and permission of the Head of School   | <b>Anti-requisite(s):</b> | CS5099           |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meetings with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |        |



OR

| CS5099 Dissertation in Computer Science   |  |                           |                  |        |
|---|--|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.  |                           |                  |        |
| This module is an individually supervised MSc project on a topic in Computer Science. It results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. Students are required to give a presentation of their work. |  |                           |                  |        |
| <b>Programme module type:</b>   | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Human Computer Interaction, in Networks and Distributed Systems, and Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc   | <b>Anti-requisite(s):</b> | CS5098           |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meeting with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                           |                  |        |

### Optional modules:

| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes.<br>Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programme. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5002 Programming Principles and Practice   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Variable   |                      |                  |   |
| This module introduces computational thinking and problem solving skills to students who have no or little previous programming experience. It covers general programming concepts used in the development of software applications, such as data structures, functions, choice, iteration, recursion and input/output. An easy-to-learn programming language is used to illustrate these concepts, and programming skills are reinforced through practical assignments. |  |                      |                  |   |
| <b>Programme module type:</b>  | Either CS5002 or CS5001 is compulsory for Computing and Information Technology Postgraduate Programme. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS5001   | <b>Required for:</b> | CS5003           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.                                      |                      |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5003 Masters Programming Projects   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Variable  |                           |                  |   |
| This module reinforces key programming skills gained in CS5002, by means of a series of coursework assignments posed as small programming projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Computing and Information Technology Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | CS5002  | <b>Anti-requisite(s):</b> | IS5108           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes.           |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS5010 Artificial Intelligence Principles  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3105   | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

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| CS5011 Artificial Intelligence Practice   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5010   | <b>Required for:</b> | CS5012, CS5019   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5012 Language and Computation  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3052 or CS5010  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5021 Advanced Networks   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic. |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Networks and Distributed Systems Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>  | CS5001  | <b>Required for:</b> | CS5023, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5023 Mobile and Wireless Networks  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science         |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3102 or CS5021   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                                 |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5030 Software Engineering Principles   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>   | as co-requisite for CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5031 Software Engineering Practice  |   |                      |                        |   |
|---|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |                      |                        |   |
| <p>This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle.</p> |   |                      |                        |   |
| <b>Programme module type:</b>   | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                        |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5030  | <b>Required for:</b> | CS5032, CS5033, CS5039 |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                        |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5032 Critical Systems Engineering  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science         |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                                 |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5033 Software Architecture   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5102 Database Management Systems   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces the core principles and techniques required in the design and implementation of database systems. With a focus on relational database management systems, topics include database design theory; E-R modelling; data definition and manipulation languages; database security and administration. There is a significant practical element to the module, which will require students to build and manipulate a database. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5103 Web Technologies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces the principles and techniques involved in the design and implementation of web applications. A web application is a collection of web pages that interact with the user, with each other, and with various resources on a web server, including databases. There is a significant practical element to the module, which will require students to build and manipulate dynamic web pages. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5104 Information Security Management  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module reviews key theoretical and practical aspects of Information Security Management. The module content covers higher-level technical and theoretical issues as well as management issues such as organisational, planning, certification, auditing and governance. From the student's perspective the module introduces students to a topical field of business and IT concern via varied learning styles and in depth consideration of current issues, standards and scenarios. The module uses both block learning and individual self-learning.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS4203  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5105 Network Systems Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module looks at the history of computer networks, examines how computer networks function, and surveys emerging and future networking technologies. Networked computer systems are pervasive in every walk of life. Today's mobile phones are more powerful computing devices than the mainframes of thirty years ago. Few organizations could function without computer networks. It gives insights into computer networking from the perspectives of developers, managers and users. Students taking this module will gain a core understanding of networking principles and protocols for wired and wireless networking. They will learn about the main aspects of network systems management, including network monitoring and configuration management, network service management, and firewall management.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5106 Green Information Technology  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces students to a variety of topics and technologies in the area of Green IT and Sustainable IT. Students investigate the way in which technology contributes towards global emissions as well as its potential to enable a positive sustainable future. This includes the responsibilities and actions of IT users, as well as service providers. The module covers key factors driving Green IT from a technical, political, financial, social and legal perspective, and includes the IT life cycle, approaches to product design and the provision of IT services. Students gain understanding and insight into current issues related to sustainable IT usage and future development.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars and tutorials                    |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                         |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5108 Information Technology Projects  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module reinforces information technology and project management skills gained during semester 1, by means of a selection of coursework assignments posed as information technology projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS5003   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes           |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| ID5059 Knowledge Discovery and Datamining   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes.<br>Compulsory for Applied Statistics and Datamining Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4102 Computer Graphics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamental concepts of computer graphics, and develops the ability to apply the concepts to the generation of realistic, synthetic images of 3D objects and scenes. On completion of the module, students should be competent to undertake many tasks in computer graphics, and should have an understanding of the theory underlying many of the relevant techniques. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |



| CS4103 Distributed Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamentals of distributed systems, with reference to system models, programming languages, algorithmic techniques, concurrency and correctness. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4201 Programming Language Design and Implementation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module studies the design and implementation of programming languages. Topics include language design principles, abstract syntax, evaluation mechanisms, binding, type systems, polymorphism, data encapsulation, exceptions, formal definition of programming languages, compiling techniques, abstract machine design, run-time systems and garbage collection. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4202 Computer Architecture   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module studies the principles and technology of modern computer architectures, with particular emphasis on performance and acceleration. Topics include the CPU, memory, interconnect architectures, performance concepts and programming models. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |                           |                  |   |
| <b>Pre-requisite(s):</b>   | CS3104   | <b>Anti-requisite(s):</b> |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

## Computer Science - MSc & MPhil Human Computer Interaction - 2015/6 - November 2015

| CS4203 Computer Security   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module introduces the basic concepts of computer security and cryptography, common attacks and defences against them, and relevant legal and policy frameworks. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |                           |                  |   |
| <b>Pre-requisite(s):</b>   | (CS2001 or CS2101) and CS2002  | <b>Anti-requisite(s):</b> | IS5104           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS4204 Concurrency and Multi-Core Architectures   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module presents the key concepts of programming multi-core/many-core and other parallel architectures, ranging from the identification and use of parallel patterns; the use of structured parallelism to implement task and data parallelism; key implementation issues, including task identification, granularity, scheduling, threads, garbage collection, task placement, locality; performance monitoring and debugging. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4302 Multimedia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module introduces the concepts of analogue and digital media, and analyses techniques for encoding, manipulating, compressing, and transmitting media based on text, audio, images, and moving images, as well as their connection with human perception. Within the context of networked multimedia, it presents issues and solutions involved in transporting time-sensitive data across computer networks. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4303 Video Games   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module builds on the general-purpose programming abilities acquired earlier, introducing games-specific techniques and material. Computer games are now a bigger industry than films, yet they are continuing to develop. While the budget for a new game may rival that of a Hollywood blockbuster, there is also a growing demand for lower octane coffee-break games that can be accessed for short periods in a browser, and for games that can be played on-the-go with a mobile device. Games programming skills are developed through lectures and laboratories, culminating in the creation of actual games.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4402 Constraint Programming  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module introduces constraint-based reasoning as a powerful mechanism for knowledge representation and inference. It provides a thorough grounding in the constraint satisfaction/constrained optimisation problem formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a commercial solver.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme and other Postgraduate Programmes in the School |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk  |               |                  |   |

## Masters in Information Technology

### Programme Requirements

*Taught Element, and PG Diploma in Information Technology:*

120 credits:

- IS5101
- remaining credits from IS5102 - IS5150, CS5001 - CS5089, ID5059

#### **MSc:**

120 credits from Taught Element, plus IS5198 or IS5199

#### **MPhil:**

120 credits from Taught Element of Information Technology plus a 40,000-word thesis

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory module:

| IS5101 Masters Core Skills  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module equips students with essential skills for completing an MSc in the School of Computer Science. Topics include: technical writing for Computer Science and Information Technology; use of bibliographic and referencing software; presentation skills; critical analysis of written work; generic research skills including framing research hypotheses, designing and conducting experiments, use of survey tools and gathering, analysing and presenting data; understanding basic statistics; use of project planning techniques; awareness of professional and ethical issues in research activities; carrying out a literature review; and awareness of what constitutes academic misconduct. Skills in these areas are reinforced through practical assignments. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all Postgraduate Programmes except Erasmus Mundus Dependable Software Systems. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.                   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |            |

**Compulsory Module for MSc - one of:**

| IS5198 Group Project and Dissertation in Information Technology  |  |                           |                  |        |
|--|--|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |        |
| <p>This module is a group-based MSc project on an approved topic in Information Technology which shows appropriate competences in the field. It results in an individual dissertation of no more than 15,000 words submitted by each student. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, the development of a software system or skilled use of one or more applications, a critical analysis and evaluation of the project outputs. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work.</p> |  |                           |                  |        |
| <b>Programme module type:</b>  | Optional for Information Technology, Computing and Information Technology MSc Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>   | Admission to dissertation phase of MSc and the consent of the Head of School                           | <b>Anti-requisite(s):</b> | IS5199           |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Meeting with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%   |                           |                  |        |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                           |                  |        |

| IS5199 Dissertation in Information Technology  |  |                           |                  |        |
|--|--|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |        |
| <p>This module is an individually supervised MSc project on an approved topic in Information Technology which shows appropriate competences in the field. The project results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, the development of a software system or skilled use of one or more applications, a critical analysis and evaluation of the project outputs. Students are required to give a presentation of their work.</p> |  |                           |                  |        |
| <b>Programme module type:</b>  | Optional for Information Technology, Computing and Information Technology MSc Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>   | Admission to dissertation phase of the MSc   | <b>Anti-requisite(s):</b> | IS5198           |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Meeting with supervisor   |                           |                  |        |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%   |                           |                  |        |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                           |                  |        |

Optional modules:

| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes.<br>Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5002 Programming Principles and Practice   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Variable   |                      |                  |   |
| This module introduces computational thinking and problem solving skills to students who have no or little previous programming experience. It covers general programming concepts used in the development of software applications, such as data structures, functions, choice, iteration, recursion and input/output. An easy-to-learn programming language is used to illustrate these concepts, and programming skills are reinforced through practical assignments. |  |                      |                  |   |
| <b>Programme module type:</b>  | Either CS5002 or CS5001 is compulsory for Computing and Information Technology Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS5001   | <b>Required for:</b> | CS5003           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5003 Masters Programming Projects   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Variable  |                           |                  |   |
| This module reinforces key programming skills gained in CS5002, by means of a series of coursework assignments posed as small programming projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Computing and Information Technology Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | CS5002  | <b>Anti-requisite(s):</b> | IS5108           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes.           |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS5010 Artificial Intelligence Principles  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3105   | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5011 Artificial Intelligence Practice   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5010   | <b>Required for:</b> | CS5012, CS5019   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

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| CS5012 Language and Computation  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3052 or CS5010  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5021 Advanced Networks   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic. |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Networks and Distributed Systems Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>  | CS5001  | <b>Required for:</b> | CS5023, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |



| CS5023 Mobile and Wireless Networks  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems. |  |               |                  |   |
| <b>Programme module type:</b>  | Either CS4103 or CS5023 is compulsory for Networks and Distributed Systems Postgraduate Programmes<br>Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3102 or CS5021   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5030 Software Engineering Principles   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>   | as co-requisite for CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5031 Software Engineering Practice  |   |                      |                        |   |
|---|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |                      |                        |   |
| <p>This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle.</p> |   |                      |                        |   |
| <b>Programme module type:</b>   | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                        |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5030  | <b>Required for:</b> | CS5032, CS5033, CS5039 |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                        |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5032 Critical Systems Engineering  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

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| CS5033 Software Architecture  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5040 Human Computer Interaction Principles and Methods   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| <p>This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI.</p> |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Human Computer Interaction Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3106  | <b>Required for:</b> | CS5042, CS5044   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5041 Interactive Software and Hardware  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5042 User-Centred Interaction Design  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 practicals and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 85%, Presentation = 15%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5044 Information Visualisation and Visual Analytics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.</p> <p>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                             |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5102 Database Management Systems  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the core principles and techniques required in the design and implementation of database systems. With a focus on relational database management systems, topics include database design theory; E-R modelling; data definition and manipulation languages; database security and administration. There is a significant practical element to the module, which will require students to build and manipulate a database.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5103 Web Technologies   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the principles and techniques involved in the design and implementation of web applications. A web application is a collection of web pages that interact with the user, with each other, and with various resources on a web server, including databases. There is a significant practical element to the module, which will require students to build and manipulate dynamic web pages.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

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| IS5104 Information Security Management  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module reviews key theoretical and practical aspects of Information Security Management. The module content covers higher-level technical and theoretical issues as well as management issues such as organisational, planning, certification, auditing and governance. From the student's perspective the module introduces students to a topical field of business and IT concern via varied learning styles and in depth consideration of current issues, standards and scenarios. The module uses both block learning and individual self-learning.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS4203  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5105 Network Systems Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module looks at the history of computer networks, examines how computer networks function, and surveys emerging and future networking technologies. Networked computer systems are pervasive in every walk of life. Today's mobile phones are more powerful computing devices than the mainframes of thirty years ago. Few organizations could function without computer networks. It gives insights into computer networking from the perspectives of developers, managers and users. Students taking this module will gain a core understanding of networking principles and protocols for wired and wireless networking. They will learn about the main aspects of network systems management, including network monitoring and configuration management, network service management, and firewall management.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5106 Green Information Technology  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces students to a variety of topics and technologies in the area of Green IT and Sustainable IT. Students investigate the way in which technology contributes towards global emissions as well as its potential to enable a positive sustainable future. This includes the responsibilities and actions of IT users, as well as service providers. The module covers key factors driving Green IT from a technical, political, financial, social and legal perspective, and includes the IT life cycle, approaches to product design and the provision of IT services. Students gain understanding and insight into current issues related to sustainable IT usage and future development.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars and tutorials                    |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                         |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

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| IS5108 Information Technology Projects  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module reinforces information technology and project management skills gained during semester 1, by means of a selection of coursework assignments posed as information technology projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS5003   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes           |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| ID5059 Knowledge Discovery and Datamining   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes.<br>Compulsory for Applied Statistics and Datamining Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

## Masters in Networks and Distributed Systems

### Programme Requirements

*Taught Element, and PG Diploma in Networks and Distributed Systems:*

120 credits:

- IS5101
- CS5001
- CS5021
- CS4103 or CS5023
- in total, up to 30 credits from CS4100 - CS4450, subject to appropriate experience
- remaining credits from IS5102 - IS5150, CS5003 - CS5089, ID5059

#### **MSc:**

120 credits from Taught Element, plus CS5098 or CS5099, the topic being in Networks and Distributed Systems

#### **MPhil:**

120 credits from Taught Element of Networks and Distributed Systems plus a 40,000-word thesis

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| IS5101 Masters Core Skills  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module equips students with essential skills for completing an MSc in the School of Computer Science. Topics include: technical writing for Computer Science and Information Technology; use of bibliographic and referencing software; presentation skills; critical analysis of written work; generic research skills including framing research hypotheses, designing and conducting experiments, use of survey tools and gathering, analysing and presenting data; understanding basic statistics; use of project planning techniques; awareness of professional and ethical issues in research activities; carrying out a literature review; and awareness of what constitutes academic misconduct. Skills in these areas are reinforced through practical assignments. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all Postgraduate Programmes except Erasmus Mundus Dependable Software Systems. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.                   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |            |



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| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5021 Advanced Networks   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Networks and Distributed Systems Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>  | CS5001   | <b>Required for:</b> | CS5023, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

You must take one, but can take both of the following:

| CS4103 Distributed Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamentals of distributed systems, with reference to system models, programming languages, algorithmic techniques, concurrency and correctness. |  |               |                  |   |
| <b>Programme module type:</b>  | Either CS4103 or CS5023 is compulsory for Networks and Distributed Systems Postgraduate Programmes<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5023 Mobile and Wireless Networks  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems. |  |               |                  |   |
| <b>Programme module type:</b>  | Either CS4103 or CS5023 is compulsory for Networks and Distributed Systems Postgraduate Programmes<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3102 or CS5021   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

**Compulsory module for MSc:**

**EITHER**

| CS5098 Group Project and Dissertation in Computer Science   |   |                           |                  |        |
|---|---|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.   |                           |                  |        |
| <p>This module is a group-based MSc project on a topic in Computer Science. It results in an individual dissertation of no more than 15,000 words submitted by each student. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work.</p> |   |                           |                  |        |
| <b>Programme module type:</b>   | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Computing & IT, in Human Computer Interaction, in Networks and Distributed Systems, Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc and permission of the Head of School   | <b>Anti-requisite(s):</b> | CS5099           |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meetings with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |        |

**OR**

| CS5099 Dissertation in Computer Science  |  |                           |                  |        |
|--|--|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |        |
| <p>This module is an individually supervised MSc project on a topic in Computer Science. It results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. Students are required to give a presentation of their work.</p> |  |                           |                  |        |
| <b>Programme module type:</b>  | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Human Computer Interaction, in Networks and Distributed Systems, and Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>   | Admission to dissertation phase of MSc   | <b>Anti-requisite(s):</b> | CS5098           |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Meeting with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |        |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                           |                  |        |

Optional modules:

| CS5002 Programming Principles and Practice   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Variable   |                      |                  |   |
| This module introduces computational thinking and problem solving skills to students who have no or little previous programming experience. It covers general programming concepts used in the development of software applications, such as data structures, functions, choice, iteration, recursion and input/output. An easy-to-learn programming language is used to illustrate these concepts, and programming skills are reinforced through practical assignments. |  |                      |                  |   |
| <b>Programme module type:</b>  | Either CS5002 or CS5001 is compulsory for Computing and Information Technology Postgraduate Programme. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS5001   | <b>Required for:</b> | CS5003           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.                                      |                      |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5003 Masters Programming Projects   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Variable  |                           |                  |   |
| This module reinforces key programming skills gained in CS5002, by means of a series of coursework assignments posed as small programming projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Computing and Information Technology Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | CS5002  | <b>Anti-requisite(s):</b> | IS5108           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes.           |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS5010 Artificial Intelligence Principles  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3105   | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

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| CS5011 Artificial Intelligence Practice   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5010   | <b>Required for:</b> | CS5012, CS5019   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5012 Language and Computation  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3052 or CS5010  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5029 Networks and Distributed Systems (Special Subject)  |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |                           |                  |   |
| This module is a guided reading module on any aspect of Networks and Distributed Systems not covered by other available modules. It is intended only for MSc students in Networks and Distributed Systems, for whom it is particularly appropriate to deliver an individually designed programme of study in a specialist area of Networks and Distributed Systems not covered by other modules. |   |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Networks and Distributed Systems Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>   | the consent of the Head of School                                     | <b>Anti-requisite(s):</b> | CS5019, CS5039   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Tutorials and practical classes.               |                           |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk                                     |                           |                  |   |

| CS5030 Software Engineering Principles   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>   | as co-requisite for CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5031 Software Engineering Practice   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                        |   |
| This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                        |   |
| <b>Co-requisite(s):</b>  | CS5001, CS5030  | <b>Required for:</b> | CS5032, CS5033, CS5039 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

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| CS5032 Critical Systems Engineering   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science         |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                                 |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5033 Software Architecture   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5040 Human Computer Interaction Principles and Methods  |   |                      |                  |   |
|---|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |                      |                  |   |
| This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI. |   |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>   | CS3106  | <b>Required for:</b> | CS5042, CS5044   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5041 Interactive Software and Hardware  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5042 User-Centred Interaction Design  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 practicals and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 85%, Presentation = 15%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |



| CS5044 Information Visualisation and Visual Analytics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.</p> <p>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                             |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5102 Database Management Systems  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the core principles and techniques required in the design and implementation of database systems. With a focus on relational database management systems, topics include database design theory; E-R modelling; data definition and manipulation languages; database security and administration. There is a significant practical element to the module, which will require students to build and manipulate a database.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5103 Web Technologies   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the principles and techniques involved in the design and implementation of web applications. A web application is a collection of web pages that interact with the user, with each other, and with various resources on a web server, including databases. There is a significant practical element to the module, which will require students to build and manipulate dynamic web pages.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5104 Information Security Management  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module reviews key theoretical and practical aspects of Information Security Management. The module content covers higher-level technical and theoretical issues as well as management issues such as organisational, planning, certification, auditing and governance. From the student's perspective the module introduces students to a topical field of business and IT concern via varied learning styles and in depth consideration of current issues, standards and scenarios. The module uses both block learning and individual self-learning.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS4203  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5105 Network Systems Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module looks at the history of computer networks, examines how computer networks function, and surveys emerging and future networking technologies. Networked computer systems are pervasive in every walk of life. Today's mobile phones are more powerful computing devices than the mainframes of thirty years ago. Few organizations could function without computer networks. It gives insights into computer networking from the perspectives of developers, managers and users. Students taking this module will gain a core understanding of networking principles and protocols for wired and wireless networking. They will learn about the main aspects of network systems management, including network monitoring and configuration management, network service management, and firewall management.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5106 Green Information Technology  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces students to a variety of topics and technologies in the area of Green IT and Sustainable IT. Students investigate the way in which technology contributes towards global emissions as well as its potential to enable a positive sustainable future. This includes the responsibilities and actions of IT users, as well as service providers. The module covers key factors driving Green IT from a technical, political, financial, social and legal perspective, and includes the IT life cycle, approaches to product design and the provision of IT services. Students gain understanding and insight into current issues related to sustainable IT usage and future development.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars and tutorials                    |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                         |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5108 Information Technology Projects  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module reinforces information technology and project management skills gained during semester 1, by means of a selection of coursework assignments posed as information technology projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS5003   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes           |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| ID5059 Knowledge Discovery and Datamining   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes.<br>Compulsory for Applied Statistics and Datamining Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |

| CS4102 Computer Graphics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamental concepts of computer graphics, and develops the ability to apply the concepts to the generation of realistic, synthetic images of 3D objects and scenes. On completion of the module, students should be competent to undertake many tasks in computer graphics, and should have an understanding of the theory underlying many of the relevant techniques. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   |  |               |                  |   |

| CS4201 Programming Language Design and Implementation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module studies the design and implementation of programming languages. Topics include language design principles, abstract syntax, evaluation mechanisms, binding, type systems, polymorphism, data encapsulation, exceptions, formal definition of programming languages, compiling techniques, abstract machine design, run-time systems and garbage collection. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4202 Computer Architecture   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module studies the principles and technology of modern computer architectures, with particular emphasis on performance and acceleration. Topics include the CPU, memory, interconnect architectures, performance concepts and programming models. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |                           |                  |   |
| <b>Pre-requisite(s):</b>   | CS3104   | <b>Anti-requisite(s):</b> |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS4203 Computer Security   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module introduces the basic concepts of computer security and cryptography, common attacks and defences against them, and relevant legal and policy frameworks. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |                           |                  |   |
| <b>Pre-requisite(s):</b>   | (CS2001 or CS2101) and CS2002  | <b>Anti-requisite(s):</b> | IS5104           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS4204 Concurrency and Multi-Core Architectures   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module presents the key concepts of programming multi-core/many-core and other parallel architectures, ranging from the identification and use of parallel patterns; the use of structured parallelism to implement task and data parallelism; key implementation issues, including task identification, granularity, scheduling, threads, garbage collection, task placement, locality; performance monitoring and debugging. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4302 Multimedia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module introduces the concepts of analogue and digital media, and analyses techniques for encoding, manipulating, compressing, and transmitting media based on text, audio, images, and moving images, as well as their connection with human perception. Within the context of networked multimedia, it presents issues and solutions involved in transporting time-sensitive data across computer networks. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4303 Video Games  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module builds on the general-purpose programming abilities acquired earlier, introducing games-specific techniques and material. Computer games are now a bigger industry than films, yet they are continuing to develop. While the budget for a new game may rival that of a Hollywood blockbuster, there is also a growing demand for lower octane coffee-break games that can be accessed for short periods in a browser, and for games that can be played on-the-go with a mobile device. Games programming skills are developed through lectures and laboratories, culminating in the creation of actual games. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4402 Constraint Programming  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces constraint-based reasoning as a powerful mechanism for knowledge representation and inference. It provides a thorough grounding in the constraint satisfaction/constrained optimisation problem formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a commercial solver.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.</p> <p>Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme and other Postgraduate Programmes in the School</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

## Masters in Software Engineering

### Programme Requirements

*Taught Element, and PG Diploma in Software Engineering:*

120 credits:

- IS5101
- CS5001
- CS5030
- CS5031
- CS5032 or CS5033
- up to 30 credits from CS4100 - CS4450, subject to appropriate experience
- remaining credits from IS5102 - IS5150, CS5003 - CS5089, ID5059

#### **MSc:**

120 credits from Taught Element, plus CS5098 or CS5099, the topic being in Software Engineering

#### **MPhil:**

120 credits from Taught Element of Networks and Distributed Systems plus a 40,000-word thesis

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| IS5101 Masters Core Skills  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module equips students with essential skills for completing an MSc in the School of Computer Science. Topics include: technical writing for Computer Science and Information Technology; use of bibliographic and referencing software; presentation skills; critical analysis of written work; generic research skills including framing research hypotheses, designing and conducting experiments, use of survey tools and gathering, analysing and presenting data; understanding basic statistics; use of project planning techniques; awareness of professional and ethical issues in research activities; carrying out a literature review; and awareness of what constitutes academic misconduct. Skills in these areas are reinforced through practical assignments. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all Postgraduate Programmes except Erasmus Mundus Dependable Software Systems. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.                   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |            |

| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5030 Software Engineering Principles   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>   | as co-requisite for CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |



| <b>CS5031 Software Engineering Practice</b>   |   |                      |                        |
|---|---|----------------------|------------------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11        | <b>Semester:</b> 1     |
| <b>Planned timetable:</b>   | To be arranged.   |                      |                        |
| <p>This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle.</p> |   |                      |                        |
| <b>Programme module type:</b>   | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                        |
| <b>Co-requisite(s):</b>   | CS5001, CS5030  | <b>Required for:</b> | CS5032, CS5033, CS5039 |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                      |                        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                      |                        |

You must take one, but can take both of the following:

| CS5032 Critical Systems Engineering  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5033 Software Architecture  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

**Compulsory module for MSc:**

**EITHER**

| CS5098 Group Project and Dissertation in Computer Science   |   |                           |                  |        |
|---|---|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.   |                           |                  |        |
| <p>This module is a group-based MSc project on a topic in Computer Science. It results in an individual dissertation of no more than 15,000 words submitted by each student. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work.</p> |   |                           |                  |        |
| <b>Programme module type:</b>   | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Computing & IT, in Human Computer Interaction, in Networks and Distributed Systems, Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc and permission of the Head of School   | <b>Anti-requisite(s):</b> | CS5099           |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meetings with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |        |

**OR**

| CS5099 Dissertation in Computer Science  |  |                           |                  |        |
|--|--|---------------------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11             | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |        |
| <p>This module is an individually supervised MSc project on a topic in Computer Science. It results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. Students are required to give a presentation of their work.</p> |  |                           |                  |        |
| <b>Programme module type:</b>  | Optional for MSc in Advanced Computer Science, in Artificial Intelligence, in Human Computer Interaction, in Networks and Distributed Systems, and Software Engineering Postgraduate Programmes. |                           |                  |        |
| <b>Pre-requisite(s):</b>   | Admission to dissertation phase of MSc   | <b>Anti-requisite(s):</b> | CS5098           |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Meeting with supervisor.  |                           |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |        |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                           |                  |        |

Optional modules:

| CS5002 Programming Principles and Practice   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Variable   |                      |                  |   |
| This module introduces computational thinking and problem solving skills to students who have no or little previous programming experience. It covers general programming concepts used in the development of software applications, such as data structures, functions, choice, iteration, recursion and input/output. An easy-to-learn programming language is used to illustrate these concepts, and programming skills are reinforced through practical assignments. |  |                      |                  |   |
| <b>Programme module type:</b>  | Either CS5002 or CS5001 is compulsory for Computing and Information Technology Postgraduate Programme. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS5001   | <b>Required for:</b> | CS5003           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.                                      |                      |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5003 Masters Programming Projects   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Variable  |                           |                  |   |
| This module reinforces key programming skills gained in CS5002, by means of a series of coursework assignments posed as small programming projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Computing and Information Technology Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | CS5002  | <b>Anti-requisite(s):</b> | IS5108           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes.           |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS5010 Artificial Intelligence Principles  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3105   | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

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| CS5011 Artificial Intelligence Practice   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5010   | <b>Required for:</b> | CS5012, CS5019   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5012 Language and Computation  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3052 or CS5010  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5021 Advanced Networks   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic. |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Networks and Distributed Systems Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>  | CS5001  | <b>Required for:</b> | CS5023, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5023 Mobile and Wireless Networks  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS4103 or CS5023 is compulsory for Networks and Distributed Systems Postgraduate Programmes Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3102 or CS5021  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5029 Software Engineering (Special Subject)  |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module is a guided reading module on any aspect of Software Engineering not covered by other available modules. It is intended only for MSc students in Software Engineering, for whom it is particularly appropriate to deliver an individually designed programme of study in a specialist area of Software Engineering not covered by other modules. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Software Engineering Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>   | the consent of the Head of School                                | <b>Anti-requisite(s):</b> | CS5019, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Tutorials and practical classes.          |                           |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk                                |                           |                  |   |

| CS5040 Human Computer Interaction Principles and Methods  |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>   | CS3106   | <b>Required for:</b> | CS5042, CS5044   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.  |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

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| CS5041 Interactive Software and Hardware  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5042 User-Centred Interaction Design  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 practicals and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 85%, Presentation = 15%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5044 Information Visualisation and Visual Analytics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.</p> <p>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                             |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5102 Database Management Systems  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the core principles and techniques required in the design and implementation of database systems. With a focus on relational database management systems, topics include database design theory; E-R modelling; data definition and manipulation languages; database security and administration. There is a significant practical element to the module, which will require students to build and manipulate a database.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5103 Web Technologies   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the principles and techniques involved in the design and implementation of web applications. A web application is a collection of web pages that interact with the user, with each other, and with various resources on a web server, including databases. There is a significant practical element to the module, which will require students to build and manipulate dynamic web pages.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |



| <b>IS5104 Information Security Management</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module reviews key theoretical and practical aspects of Information Security Management. The module content covers higher-level technical and theoretical issues as well as management issues such as organisational, planning, certification, auditing and governance. From the student's perspective the module introduces students to a topical field of business and IT concern via varied learning styles and in depth consideration of current issues, standards and scenarios. The module uses both block learning and individual self-learning.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS4203  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| <b>IS5105 Network Systems Management</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module looks at the history of computer networks, examines how computer networks function, and surveys emerging and future networking technologies. Networked computer systems are pervasive in every walk of life. Today's mobile phones are more powerful computing devices than the mainframes of thirty years ago. Few organizations could function without computer networks. It gives insights into computer networking from the perspectives of developers, managers and users. Students taking this module will gain a core understanding of networking principles and protocols for wired and wireless networking. They will learn about the main aspects of network systems management, including network monitoring and configuration management, network service management, and firewall management.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| <b>IS5106 Green Information Technology</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces students to a variety of topics and technologies in the area of Green IT and Sustainable IT. Students investigate the way in which technology contributes towards global emissions as well as its potential to enable a positive sustainable future. This includes the responsibilities and actions of IT users, as well as service providers. The module covers key factors driving Green IT from a technical, political, financial, social and legal perspective, and includes the IT life cycle, approaches to product design and the provision of IT services. Students gain understanding and insight into current issues related to sustainable IT usage and future development.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars and tutorials                    |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                         |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5108 Information Technology Projects  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module reinforces information technology and project management skills gained during semester 1, by means of a selection of coursework assignments posed as information technology projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS5003   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes           |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| ID5059 Knowledge Discovery and Datamining   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes.<br>Compulsory for Applied Statistics and Datamining Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4102 Computer Graphics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamental concepts of computer graphics, and develops the ability to apply the concepts to the generation of realistic, synthetic images of 3D objects and scenes. On completion of the module, students should be competent to undertake many tasks in computer graphics, and should have an understanding of the theory underlying many of the relevant techniques. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   |  |               |                  |   |

| CS4103 Distributed Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module covers the fundamentals of distributed systems, with reference to system models, programming languages, algorithmic techniques, concurrency and correctness. |  |               |                  |   |
| <b>Programme module type:</b>  | Either CS4103 or CS5023 is compulsory for Networks and Distributed Systems Postgraduate Programmes<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4201 Programming Language Design and Implementation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module studies the design and implementation of programming languages. Topics include language design principles, abstract syntax, evaluation mechanisms, binding, type systems, polymorphism, data encapsulation, exceptions, formal definition of programming languages, compiling techniques, abstract machine design, run-time systems and garbage collection. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4202 Computer Architecture   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module studies the principles and technology of modern computer architectures, with particular emphasis on performance and acceleration. Topics include the CPU, memory, interconnect architectures, performance concepts and programming models. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |                           |                  |   |
| <b>Pre-requisite(s):</b>   | CS3104   | <b>Anti-requisite(s):</b> |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

## Computer Science - MSc & MPhil Software Engineering - 2015/6 - November 2015

| CS4203 Computer Security   |  |                           |                  |   |
|--|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |                           |                  |   |
| This module introduces the basic concepts of computer security and cryptography, common attacks and defences against them, and relevant legal and policy frameworks. |  |                           |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |                           |                  |   |
| <b>Pre-requisite(s):</b>   | (CS2001 or CS2101) and CS2002  | <b>Anti-requisite(s):</b> | IS5104           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |                           |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |                           |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS4204 Concurrency and Multi-Core Architectures   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module presents the key concepts of programming multi-core/many-core and other parallel architectures, ranging from the identification and use of parallel patterns; the use of structured parallelism to implement task and data parallelism; key implementation issues, including task identification, granularity, scheduling, threads, garbage collection, task placement, locality; performance monitoring and debugging. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4302 Multimedia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module introduces the concepts of analogue and digital media, and analyses techniques for encoding, manipulating, compressing, and transmitting media based on text, audio, images, and moving images, as well as their connection with human perception. Within the context of networked multimedia, it presents issues and solutions involved in transporting time-sensitive data across computer networks. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                       |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

## Computer Science - MSc & MPhil Software Engineering - 2015/6 - November 2015

| CS4303 Video Games   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module builds on the general-purpose programming abilities acquired earlier, introducing games-specific techniques and material. Computer games are now a bigger industry than films, yet they are continuing to develop. While the budget for a new game may rival that of a Hollywood blockbuster, there is also a growing demand for lower octane coffee-break games that can be accessed for short periods in a browser, and for games that can be played on-the-go with a mobile device. Games programming skills are developed through lectures and laboratories, culminating in the creation of actual games.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate Programmes in the School of Computer Science   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS4402 Constraint Programming  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces constraint-based reasoning as a powerful mechanism for knowledge representation and inference. It provides a thorough grounding in the constraint satisfaction/constrained optimisation problem formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a commercial solver.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.</p> <p>Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme and other Postgraduate Programmes in the School</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |                  |   |

## Erasmus Mundus Masters in Dependable Software Systems

### Programme Requirements

120 credits:

- CS5001 (if no equivalent module has been taken at a partner institution as part of the DESEM programme)
- CS5899
- at least 15 and at most 30 credits from CS5010, CS5021, CS5030
- up to 30 credits from CS4052, CS4402, subject to appropriate experience
- remaining credits from IS5101 - IS5150, CS5003 - CS5089, ID5059

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |
|--|---|----------------------|------------------------|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> 1     |
| <b>Planned timetable:</b>  | Variable  |                      |                        |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes. |                      |                        |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |

## Computer Science - Dependable Software Systems - 2015/6 - November 2015

| CS5899 Erasmus Mundus Dissertation in Dependable Software Systems  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 45   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Academic year:</b>  | 2015/6 & 2016/7  |               |                  |            |
| <b>Availability restrictions:</b>  | Available only to students on Erasmus Mundus MSc in Dependable Software Systems.                       |               |                  |            |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| This module is an individually supervised dissertation, not exceeding 15,000 words, on a topic in computer science. Typically it comprises a literature review, extension of old or development of new ideas, their implementation and testing, summarised in a report, with the implementation based on sound theory and software engineering principles. Students will be required to give an assessed presentation of their work. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Erasmus Mundus in Dependable Software Systems MSc Postgraduate Programme at St Andrews. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Meeting with supervisor.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |            |

### One or two of:

| CS5010 Artificial Intelligence Principles  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3105   | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

## Computer Science - Dependable Software Systems - 2015/6 - November 2015

| CS5021 Advanced Networks  |   |                      |                  |   |
|---|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |                      |                  |   |
| <p>This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic.</p> |   |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Networks and Distributed Systems Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001  | <b>Required for:</b> | CS5023, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5030 Software Engineering Principles  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>  | as co-requisite for CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |



Optional to take one or both of:

| CS4052 Logic and Software Verification   |  |               |  |   |
|--|--|---------------|--|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b>                           | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |  |   |
| Building on earlier coverage of elementary logic, this module motivates the need for formal methods and software verification approaches as model checking for guaranteeing the correctness of software systems. The module covers modelling, system property specification using temporal logics, and more applied approaches to software specification and verification through the use of model checkers. Model checkers such as SPIN and UPPAAL are used both in lectures and in practical work. Petri nets and program semantics are also explored. Software correctness is thus presented as a matter not of testing but of pre-execution verification through model checking. |  |               |  |   |
| <b>Programme module type:</b>  | Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme                         |               |  |   |
| <b>Pre-requisite(s):</b>   | CS3052   |               |  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.                               |               |  |   |
|  | <b>Scheduled learning:</b> 28 hours  |               | <b>Guided independent study:</b> 122 hours |   |
| <b>Assessment pattern:</b>   | <b>As defined by QAA:</b><br>Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40% |               |  |   |
|  | <b>As used by St Andrews:</b><br>2-hour Written Examination = 60%, Coursework = 40%                    |               |  |   |
| <b>Re-Assessment:</b>  | 2-hour Written Examination = 60%, Existing Coursework = 40%  |               |  |   |
| <b>Module Co-ordinator:</b>  | hons-coord-cs@st-andrews.ac.uk   |               |  |   |

| CS4402 Constraint Programming   |   |               |  |   |
|---|---|---------------|--|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 10 | <b>Semester:</b>                           | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |  |   |
| This module introduces constraint-based reasoning as a powerful mechanism for knowledge representation and inference. It provides a thorough grounding in the constraint satisfaction/constrained optimisation problem formalism, and covers both basic techniques for implementing constraint solvers and the use of advanced techniques with a commercial solver. |   |               |  |   |
| <b>Programme module type:</b>   | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme and other Postgraduate Programmes in the School |               |  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and fortnightly tutorial.  |               |  |   |
|   | <b>Scheduled learning:</b> 28 hours   |               | <b>Guided independent study:</b> 122 hours |   |
| <b>Assessment pattern:</b>  | <b>As defined by QAA:</b><br>Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%  |               |  |   |
|   | <b>As used by St Andrews:</b><br>2-hour Written Examination = 60%, Coursework = 40%   |               |  |   |
| <b>Re-Assessment:</b>   | 2-hour Written Examination = 60%, Existing Coursework = 40%   |               |  |   |
| <b>Module Co-ordinator:</b>   | hons-coord-cs@st-andrews.ac.uk  |               |  |   |

Remaining credits from the following:

| CS5001 Object-Oriented Modelling, Design and Programming   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes.<br>Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programme. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5002 Programming Principles and Practice   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Variable   |                      |                  |   |
| This module introduces computational thinking and problem solving skills to students who have no or little previous programming experience. It covers general programming concepts used in the development of software applications, such as data structures, functions, choice, iteration, recursion and input/output. An easy-to-learn programming language is used to illustrate these concepts, and programming skills are reinforced through practical assignments. |  |                      |                  |   |
| <b>Programme module type:</b>  | Either CS5002 or CS5001 is compulsory for Computing and Information Technology Postgraduate Programme. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS5001   | <b>Required for:</b> | CS5003           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.                                      |                      |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5003 Masters Programming Projects   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Variable  |                           |                  |   |
| This module reinforces key programming skills gained in CS5002, by means of a series of coursework assignments posed as small programming projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Computing and Information Technology Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | CS5002  | <b>Anti-requisite(s):</b> | IS5108           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes.           |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS5010 Artificial Intelligence Principles  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3105   | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5011 Artificial Intelligence Practice   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5010   | <b>Required for:</b> | CS5012, CS5019   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5012 Language and Computation  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3052 or CS5010  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

## Computer Science - Dependable Software Systems - 2015/6 - November 2015

| CS5021 Advanced Networks   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Networks and Distributed Systems Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>  | CS5001   | <b>Required for:</b> | CS5023, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5023 Mobile and Wireless Networks  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science         |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3102 or CS5021   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                                 |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5030 Software Engineering Principles   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>   | as co-requisite for CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

## Computer Science - Dependable Software Systems - 2015/6 - November 2015

| CS5031 Software Engineering Practice  |   |                      |                        |   |
|---|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |                      |                        |   |
| <p>This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle.</p> |   |                      |                        |   |
| <b>Programme module type:</b>   | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                        |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5030  | <b>Required for:</b> | CS5032, CS5033, CS5039 |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                        |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5032 Critical Systems Engineering  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science         |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                                 |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

## Computer Science - Dependable Software Systems - 2015/6 - November 2015

| CS5033 Software Architecture  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS3051 or CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5040 Human Computer Interaction Principles and Methods   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| <p>This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI.</p> |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Human Computer Interaction Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3106  | <b>Required for:</b> | CS5042, CS5044   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

## Computer Science - Dependable Software Systems - 2015/6 - November 2015

| CS5041 Interactive Software and Hardware  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5042 User-Centred Interaction Design  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 practicals and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 85%, Presentation = 15%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5044 Information Visualisation and Visual Analytics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.</p> <p>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript).</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                             |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5102 Database Management Systems  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the core principles and techniques required in the design and implementation of database systems. With a focus on relational database management systems, topics include database design theory; E-R modelling; data definition and manipulation languages; database security and administration. There is a significant practical element to the module, which will require students to build and manipulate a database.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5103 Web Technologies   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the principles and techniques involved in the design and implementation of web applications. A web application is a collection of web pages that interact with the user, with each other, and with various resources on a web server, including databases. There is a significant practical element to the module, which will require students to build and manipulate dynamic web pages.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |



| IS5104 Information Security Management   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module reviews key theoretical and practical aspects of Information Security Management. The module content covers higher-level technical and theoretical issues as well as management issues such as organisational, planning, certification, auditing and governance. From the student's perspective the module introduces students to a topical field of business and IT concern via varied learning styles and in depth consideration of current issues, standards and scenarios. The module uses both block learning and individual self-learning. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Anti-requisite(s):</b>  | CS4203  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5105 Network Systems Management  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module looks at the history of computer networks, examines how computer networks function, and surveys emerging and future networking technologies. Networked computer systems are pervasive in every walk of life. Today's mobile phones are more powerful computing devices than the mainframes of thirty years ago. Few organizations could function without computer networks. It gives insights into computer networking from the perspectives of developers, managers and users. Students taking this module will gain a core understanding of networking principles and protocols for wired and wireless networking. They will learn about the main aspects of network systems management, including network monitoring and configuration management, network service management, and firewall management. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5106 Green Information Technology   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module introduces students to a variety of topics and technologies in the area of Green IT and Sustainable IT. Students investigate the way in which technology contributes towards global emissions as well as its potential to enable a positive sustainable future. This includes the responsibilities and actions of IT users, as well as service providers. The module covers key factors driving Green IT from a technical, political, financial, social and legal perspective, and includes the IT life cycle, approaches to product design and the provision of IT services. Students gain understanding and insight into current issues related to sustainable IT usage and future development. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars and tutorials                    |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                         |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

## Computer Science - Dependable Software Systems - 2015/6 - November 2015

| IS5108 Information Technology Projects  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module reinforces information technology and project management skills gained during semester 1, by means of a selection of coursework assignments posed as information technology projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Anti-requisite(s):</b>   | CS5003   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes           |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| ID5059 Knowledge Discovery and Datamining   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes.<br>Compulsory for Applied Statistics and Datamining Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

## School of Divinity

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **Postgraduate Diploma:**

*(this is also the Taught element of the MLitt and MPhil programme):*

**Bible and Contemporary World** ([link](#))

**Biblical Languages and Literature** ([link](#))

**Scripture and Theology** ([link](#))

**Systematic and Historical Theology** ([link](#))

**Theology, Imagination and the Arts** ([link](#))

#### **MLitt:**

**Bible and Contemporary World** ([link](#))

**Biblical Languages and Literature** ([link](#))

**Scripture and Theology** ([link](#))

**Systematic and Historical Theology** ([link](#))

**Theology, Imagination and the Arts** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*



## Masters in Bible and Contemporary World

Also available as Postgraduate Diploma and as single modules (credit-only)

### Programme Requirements

#### Postgraduate Diploma (part-time distance learning mode)

*(this is also the Taught Element for the MLitt part-time distance learning mode programme):*

120 credits: DI5901 - DI5925

#### MLitt (part-time distance learning mode):

120 credits from the Taught Element plus DI5999

#### Postgraduate Diploma (local, full-time mode) *(this is also the Taught Element for the MLitt local, full-time mode programme):*

80 credits: modules DI5901 - DI5925 plus

40 credits: DI5221, DI5431 or DI5441 or any other 5000- level DI module(s) with the agreement of the Head of School.

OR

20 credits: DI5221, DI5431 or DI5441 plus

20 credits: from a language (chosen from French (FR), German (GM), Greek (GK), Italian (IT), Latin (LT), Persian (PR), Spanish (SP) language modules at the level appropriate to the student's level of proficiency.

OR:

10 credits: DI5080 plus

40 credits: from a language (chosen from French (FR), German (GM), Greek (GK), Italian (IT), Latin (LT), Persian (PR), Spanish (SP) language modules at the level appropriate to the student's level of proficiency.

#### MLitt (local, full-time mode):

120 credits from the Taught Element plus DI5099

### Compulsory module for the MLitt Local full-time mode:

| DI5099 Dissertation for MLitt Programme/s   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                    |               |                  |   |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 (excluding bibliography) words must be submitted by a date specified in August. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MLitt Postgraduate Programmes within the School. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.                  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                                |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |

## Divinity - PG Bible and Contemporary World - 2015/6 - November 2015

### Compulsory module for the MLitt - Distance Learning mode:

| DI5999 Dissertation (Distance Learning)  |   |               |                  |                      |
|--|---|---------------|------------------|----------------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | 1 & 2 (taught twice) |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.                              |               |                  |                      |
| In this module students undertake research under individual supervision towards writing a dissertation on a topic agreed in conjunction with their supervisor. |   |               |                  |                      |
| <b>Programme module type:</b>  | Compulsory for Bible and Contemporary World MLitt Postgraduate Programme. |               |                  |                      |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision                             |               |                  |                      |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |                      |
| <b>Module Co-ordinator:</b>  | Dr E Stoddart   |               |                  |                      |

### Optional modules - Distance learning mode:

| DI5901 The Bible and Contemporary Issues   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| Believing that the Bible can shape our thinking about issues of contemporary concern is one thing; working out how this is to be done is another. This module explores a variety of hermeneutical approaches that have been proposed to make intelligent connections between the Christian scriptures, events, trends and cultural assumptions. We explore how the Hebrew Bible and New Testament traditions can be interpreted in relation to matters of public interest. An historical perspective to Christians' use of the Bible in this regard is complemented by considering radical hermeneutical methods developed within liberationist, queer and post-colonial perspectives in the twenty-first century. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Bible and Contemporary World Postgraduate Taught Programmes.<br>[Not available to any student not registered for one of these programmes] |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Online lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Stoddart  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Stoddart, and tutoring team from the School of Divinity.  |               |                  |   |

| DI5924 Surveillance, Theology and the Bible  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | Not relevant.  |               |                  |   |
| <p>This module will help you think critically about surveillance in contemporary life. You will consider current theories from the field of surveillance studies as well as turning to the Hebrew Bible and New Testament for themes that might stimulate the appraisal of surveillance in other ways. Christian theological perspectives on technology will direct your attention to issues at stake that do not otherwise readily come to the surface. Privacy will normally be a particular focus for biblical and theological examination but so too will questions of human flourishing and security. You will also give some consideration to how Christians experience surveillance in specific contexts and how churches and Christian organisations deploy surveillance technologies too.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Bible and Contemporary World Postgraduate Taught Programmes.<br>[Not available to any student not registered for one of these programmes] |               |                  |   |
| <b>Anti-requisite(s):</b>  | DI5922   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Online lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Stoddart  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Stoddart  |               |                  |   |

**Optional modules - Local mode:**

**Above modules plus:**

| DI5431 Theological Engagements with the Arts: Rationales, Methods and Texts   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm - 6.00 pm Thu  |               |                  |   |
| <p>The arts are central to most human cultures, and are widely valued as an important and enriching part of our existence together as creatures in God's world. Today there is a burgeoning interest in the arts among theologians and biblical scholars across the denominational and theological spectrum. But this takes many different forms and proceeds in some rather divergent directions. This module will investigate some basic questions of definition and rationale pertaining to the conversation between theology and the arts. Students will examine a representative selection of different accounts of and approaches taken to the conversation within this inter-disciplinary field, earthing the generalities of theory in continuous attention to particular artistic texts.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Theology, Imagination and the Arts Postgraduate Programmes.<br>Optional for other Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 40%, Coursework = 60%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr G Hopps   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr G Hopps   |               |                  |   |

## Divinity - PG Bible and Contemporary World - 2015/6 - November 2015

| DI5441 Christian Doctrine and the Arts  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Mon and 2.00 pm - 4.00 pm Thu (TBC)  |               |                  |   |
| <p>The module uses primarily (but not exclusively) painting to consider the devices employed by artists to convey major doctrinal themes associated with Christ (divinity, atonement, resurrection, Trinity), the means used by artists to engage the imagination and sympathies of viewers (including use of other figures in the narrative), and the extent to which the artists might be said to be engaging in theological exploration in their own right. While twentieth century art will be given a prominent place, examples will be drawn across two millennia to initiate discussion of some of the factors leading to changes in presentation (cultural as well as theological).</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Theology, Imagination and the Arts Postgraduate Programmes.<br>Optional for other Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 40%, Coursework = 60%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Wolfe   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Wolfe   |               |                  |   |

| DI5080 Guided Study in Divinity   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Either |
| <b>Availability restrictions:</b>   | Available only to Taught Postgraduate students also doing one or more language modules   |               |                  |        |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>The project enables a student to research a special topic of his/her choice (in consultation with staff) and to develop it at length in an essay. The length of the essay should be approximately 3,000 words, and must not in any case exceed 3,500 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.</p> <p>This module is not routinely offered and may only be taken by special arrangement, with the agreement of the Head of School.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Bible and Contemporary World, Biblical Languages and Literature, Scripture and Theology and Systematic and Historical Theology Postgraduate Programmes. |               |                  |        |
| <b>Co-requisite(s):</b>   | One or more language modules   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> To be arranged  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework (Essay) = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | TBC in consultation with Director of the programme   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | TBC in consultation with Director of the programme   |               |                  |        |



## Masters in Biblical Languages and Literature

### Also available as Postgraduate Diploma

### Programme Requirements

**Taught Element:**

60 credits: DI5105 **and** (DI5106 or DI4726 + DI5080) **and** (DI5107 or DI4632 + DI5080).

20 credits: DI5150 - DI5295; (*any module within this range which is available*)

40 credits: DI5150 - DI5295, DI5429, (DI4705+ DI5080)

or may also include:

30 - 40 credits: from a language (chosen from French (FR), German (GM), Italian (IT), Latin (LT), Persian (PR), Spanish (SP) language modules at the level appropriate to the student's level of proficiency.

In exceptional circumstances the Head of School may permit a student to take up to 40 credits in a 5000-level module or modules offered by another School, or in Special Topic modules (DI5011, DI5115, DI5211, DI5305, DI5415) run by the School of Divinity.

**MLitt:**

120 credits from the Taught Element plus DI5099

### Compulsory modules:

| DI5105 Textual Criticism of the Hebrew Bible and the New Testament  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module will critically survey the most important witnesses, that is both manuscripts and text traditions, of the Hebrew Bible/Old Testament, the Septuagint and the New Testament and show how the different manuscripts are used to create text editions. The class will also focus on the printed texts and their textual apparatus and demonstrate how to successfully use these. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Biblical Languages and Literature Postgraduate Programme.<br>Optional for Scripture and Theology Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours (Weeks 1 -5)   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T M Law  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr T M Law  |               |                  |   |

## Divinity - MLitt Biblical Languages and Literature 2015/6 - November 2015

| DI4726 Hebrew Readings  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 2.00 pm Wed  |               |                  |   |
| <p>This module intends to acquaint the student with a range of Hebrew Readings. Three areas of specialisation will be pursued: text criticism, exegesis, and reading and translating texts from the Old Testament, with a particular focus on the last of these. Text criticism is an advanced subject area, requiring cognate language skills and detailed work in the history of the Hebrew language. To this end, the module will familiarise students with the textual apparatus of (BHS) Biblia Hebraica Stuttgartensia and will attend to the logic of text-critical decisions deployed by the standard technical commentary series, notably The International Critical Commentary Series and the Hermenia Commentary Series.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Either DI5106 or DI4726 + DI5080 is compulsory for Biblical Languages and Literature Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 1-hour lecture and 1 x 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr W Tooman   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr W Tooman   |               |                  |   |

OR (depending on other module choices)

| DI5106 Hebrew Readings  |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |                           |                  |   |
| <p>This module is a technical introduction to a select book or text within the Hebrew Bible, including: translation, interpretation, textual-criticism, composition, and ideology. The module is designed, principally, to assist students in building their technical skills to work competently with primary sources. As such, class periods will be structured around student performance.</p> |  |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Biblical Languages and Literature Postgraduate Taught Programme.<br>Optional for other PGT programmes in Divinity as appropriate. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | Prior knowledge of Hebrew to appropriate standard  | <b>Anti-requisite(s):</b> | DI4726, DI5250   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours. (Weeks 1 - 5)  |                           |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 80%, Coursework = 20%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr W Tooman  |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr W Tooman  |                           |                  |   |

## Divinity - MLitt Biblical Languages and Literature - 2015/6 - November 2015

| DI4632 Reading in the Greek New Testament   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Academic year:</b>   | 2015/6   |               |                  |   |
| <b>Planned timetable:</b>   | Lecture: 11.00 am - 12.00 noon Thu, Seminar: 10.00 am - 12.00 noon Mon   |               |                  |   |
| <p>Building on the competencies learned in DI2201, students will gain familiarity with advanced grammatical concepts and syntactical relationships as they are encountered inductively through the reading of primary texts. In addition, students will learn to use and evaluate a standard reference work regarding intermediate Koine Greek grammar as they learn to analyze the primary texts by using the syntactical categories of contemporary scholarship. Finally, in order to facilitate future reading, students will increase their vocabulary by mastering every word that occurs 25 times or more in the Greek New Testament.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Either DI5107 or DI4632 + DI5080 is compulsory for Biblical Languages and Literature Postgraduate Programmes . |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 30%, Coursework = 70%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Hafemann  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Hafemann  |               |                  |   |

| DI5080 Guided Study in Divinity   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Either |
| <b>Availability restrictions:</b>   | Available only to Taught Postgraduate students also doing one or more language modules   |               |                  |        |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>The project enables a student to research a special topic of his/her choice (in consultation with staff) and to develop it at length in an essay. The length of the essay should be approximately 3,000 words, and must not in any case exceed 3,500 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.</p> <p>This module is not routinely offered and may only be taken by special arrangement, with the agreement of the Head of School.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Bible and Contemporary World, Biblical Languages and Literature, Scripture and Theology and Systematic and Historical Theology Postgraduate Programmes. |               |                  |        |
| <b>Co-requisite(s):</b>   | One or more language modules   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> To be arranged  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework (Essay) = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | TBC in consultation with Director of the programme   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | TBC in consultation with Director of the programme   |               |                  |        |

## Divinity - MLitt Biblical Languages and Literature 2015/6 - November 2015

| DI5107 Greek Readings   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module is a technical introduction to reading the Greek New Testament: its text, translation, interpretation, historical location and theology. The module is designed, principally, to assist students in building their technical skills to work competently with primary sources. As such, class periods will be structured around student performance in reading, translating, commenting on and interpreting the chosen text. |   |               |                  |   |
| <b>Programme module type:</b>   | Either DI5107 or DI4632 + DI5080 is compulsory for Biblical Languages and Literature Postgraduate Taught Programme.<br>Optional for other Divinity Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | Prior knowledge of Greek to appropriate standard  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours ( Weeks 1 - 5)   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T M Law  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr T M Law  |               |                  |   |

| DI5099 Dissertation for MLitt Programme/s   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                    |               |                  |   |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 (excluding bibliography) words must be submitted by a date specified in August. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MLitt Postgraduate Programmes within the School. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.                  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                                |               |                  |   |
| <b>Module Co-ordinator:</b>   | Assigned supervisors  |               |                  |   |

Optional modules:

| DI4705 Biblical Aramaic  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Lecture: 12.00 noon - 1.00 pm Tue, Seminar: 2.00 pm - 4.00 pm Fri                         |               |                  |   |
| This module introduces students to a Semitic language related to Hebrew, in which parts of the Hebrew Bible are written. It consists of an introduction to basic elements of the language and study of selected texts from the biblical books of Daniel (court tales describing life in the Babylonian capital during the exile) and Ezra (diplomatic texts from the post-exilic period dealing with the return of the exiles to Palestine and the rebuilding of the temple in Jerusalem). |   |               |                  |   |
| <b>Programme module type:</b>  | DI4705 + DI5080 is optional for Biblical Languages and Literature Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J Davila   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J Davila   |               |                  |   |

| DI5201 History of Biblical Interpretation  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module will critically and historically survey the most common interpretations of the Hebrew Bible/Old Testament, the Septuagint and the New Testament following a historical line from the pre-rabbinic Jewish interpretations over the Patristic interpretations to the later Rabbinic interpretations. Special attention will also be devoted to the reinterpretation of Scripture in New Testament. |  |               |                  |   |
| <b>Programme module type:</b>  | DI5201 or DI5203 is Compulsory for Scripture and Theology Postgraduate Programmes.<br>Optional for other Divinity Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>   | Analytic knowledge of basic Greek (classical or biblical) and/or basic Hebrew  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4hours (weeks 7-11, final essay submitted in Week 12)   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M Elliott   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Elliott   |               |                  |   |

## Divinity - MLitt Biblical Languages and Literature 2015/6 - November 2015

| DI5415 Theology Special Topic: (Title to be confirmed)  |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | Either |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |        |
| <p>The project enables students to research a special topic under the guidance of a member of staff and to develop it at length in dissertation form. The length of the dissertation should be approximately 6,000 words, and must not in any case exceed 7,000 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.</p> <p>This module is not routinely offered and may only be taken by special arrangement, with the agreement of the Head of School.</p> |   |               |                  |        |
| <b>Programme module type:</b>   | Optional for Biblical Languages and Literature or Scripture and Theology or Systematic and Historical Theology Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours (Weeks 1 - 6)  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | Prof A Torrance   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof A Torrance   |               |                  |        |

| DI5429 Biblical Themes   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will explore the development of one or more themes (e.g. temple or covenant) through the biblical texts. Proper attention will be paid to the historical-critical dimensions of these themes, including textual/philological detail and background, but the module will be particularly concerned with the ways in which they develop across the Testaments and are taken up into Christian theology, providing frameworks and concepts for different elements of this. Post-biblical Jewish interpretations may also be examined as part of the study, but the module will be specifically oriented towards the significance of themes in the Bible for Christian theology.</p> <p>The specific theme(s) to be covered in a particular year will be publicised in the module handbook for that year.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Scripture and Theology Postgraduate Programme.<br>Optional for Biblical Languages and Literature Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 40%, Coursework = 60%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | TBC   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | TBC   |               |                  |   |

| DI5201 History of Biblical Interpretation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module will critically and historically survey the most common interpretations of the Hebrew Bible/Old Testament, the Septuagint and the New Testament following a historical line from the pre-rabbinic Jewish interpretations over the Patristic interpretations to the later Rabbinic interpretations. Special attention will also be devoted to the reinterpretation of Scripture in New Testament.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Biblical Languages and Literature and Scripture and Theology Postgraduate Programmes.<br>Optional for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | Analytic knowledge of basic Greek (classical or biblical) and/or basic Hebrew  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4hours (weeks 7-11, final essay submitted in Week 12)   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Elliott   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Elliott   |               |                  |   |

## Masters in Scripture and Theology

### Programme Requirements

**Taught Element:**

80 credits: (DI5201 or DI5203), DI5429 and DI5501;

40 credits: DI5001 - DI5595, (except DI5431, DI5441, DI5442) or may also include:

DI5080 and 30 - 40 credits: from a language (chosen from French (FR), German (GM), Greek (GK) Hebrew (DI), Italian (IT), Persian (PR), Spanish (SP) language modules at the level appropriate to the student's level of proficiency.

In exceptional circumstances the Head of School may permit a student to take up to 40 credits in a 5000-level module offered by another School, or in Special Topic modules (DI5011, DI5115, DI5211, DI5305, DI5415) run by the School of Divinity.

**MLitt:**

120 credits from the Taught Element plus DI5099

### Compulsory modules:

| DI5201 History of Biblical Interpretation  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am - 12.00 noon Tue and 10.00 am - 12.00 noon Thu  |               |                  |   |
| This module will critically and historically survey the most common interpretations of the Hebrew Bible/Old Testament, the Septuagint and the New Testament following a historical line from the pre-rabbinic Jewish interpretations over the Patristic interpretations to the later Rabbinic interpretations. Special attention will also be devoted to the reinterpretation of Scripture in New Testament. |  |               |                  |   |
| <b>Programme module type:</b>  | DI5201 or DI5203 is Compulsory for Scripture and Theology Postgraduate Programmes.<br>Optional for other Divinity Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>   | Analytic knowledge of basic Greek (classical or biblical) and/or basic Hebrew  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4hours (weeks 7-11, final essay submitted in Week 12)   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M Elliott   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Elliott   |               |                  |   |



## Divinity - PG Scripture and Theology - 2015/6 - November 2015

| DI5429 Biblical Themes   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will explore the development of one or more themes (e.g. temple or covenant) through the biblical texts. Proper attention will be paid to the historical-critical dimensions of these themes, including textual/philological detail and background, but the module will be particularly concerned with the ways in which they develop across the Testaments and are taken up into Christian theology, providing frameworks and concepts for different elements of this. Post-biblical Jewish interpretations may also be examined as part of the study, but the module will be specifically oriented towards the significance of themes in the Bible for Christian theology.</p> <p>The specific theme(s) to be covered in a particular year will be publicised in the module handbook for that year.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Scripture and Theology Postgraduate Programme.<br>Optional for Biblical Languages and Literature |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 40%, Coursework = 60%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | TBC   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | TBC   |               |                  |   |

| DI5501 The Origins of Christian Theology   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Academic year:</b>  | 2015/6 & 2016/7   |               |                  |   |
| <b>Availability restrictions:</b>  |   |               |                  |   |
| <b>Planned timetable:</b>  | 9.00 am - 11.00 am Tue and 9.00 am - 11.00 am Thu   |               |                  |   |
| <p>This module examines the beginnings of Christian theology in the New Testament texts, and in early Christian writers. Themes considered may include the doctrine of God; early Christology; ecclesiology; and creation.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Scripture and Theology and Systematic and Historical Theology Postgraduate Programmes.<br>Optional for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours. (Weeks 1 - 6).  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Wolfe  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof N T Wright, Dr J Wolfe   |               |                  |   |

| DI5099 Dissertation for MLitt Programme/s  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Academic year:</b>  | 2015/6 & 2016/7   |               |                  |   |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.                    |               |                  |   |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 (excluding bibliography) words must be submitted by the end of August. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MLitt Postgraduate Programmes within the School. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.                  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%                                |               |                  |   |
| <b>Module Co-ordinator:</b>  | Assigned supervisors  |               |                  |   |

### Optional modules:

| DI5080 Guided Study in Divinity   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Either |
| <b>Availability restrictions:</b>   | Available only to Taught Postgraduate students also doing one or more language modules   |               |                  |        |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>The project enables a student to research a special topic of his/her choice (in consultation with staff) and to develop it at length in an essay. The length of the essay should be approximately 3,000 words, and must not in any case exceed 3,500 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.</p> <p>This module is not routinely offered and may only be taken by special arrangement, with the agreement of the Head of School.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Bible and Contemporary World, Biblical Languages and Literature, Scripture and Theology and Systematic and Historical Theology Postgraduate Programmes. |               |                  |        |
| <b>Co-requisite(s):</b>   | One or more language modules   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> To be arranged  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework (Essay) = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | TBC in consultation with Director of the programme   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | TBC in consultation with Director of the programme   |               |                  |        |

## Divinity - PG Scripture and Theology - 2015/6 - November 2015

| DI5105 Textual Criticism of the Hebrew Bible and the New Testament   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module will critically survey the most important witnesses, that is both manuscripts and text traditions, of the Hebrew Bible/Old Testament, the Septuagint and the New Testament and show how the different manuscripts are used to create text editions. The class will also focus on the printed texts and their textual apparati and demonstrate how to successfully use these. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Biblical Languages and Literature Postgraduate Programme.<br>Optional for Scripture and Theology Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours (Weeks 1 -5)   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof K De Troyer  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof K De Troyer  |               |                  |   |

| DI5107 Greek Readings   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module is a technical introduction to reading the Greek New Testament: its text, translation, interpretation, historical location and theology. The module is designed, principally, to assist students in building their technical skills to work competently with primary sources. As such, class periods will be structured around student performance in reading, translating, commenting on and interpreting the chosen text. |   |               |                  |   |
| <b>Programme module type:</b>   | Either DI5107 or DI4632 + DI5080 is compulsory for Biblical Languages and Literature Postgraduate Taught Programme.<br>Optional for other Divinity Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | Prior knowledge of Greek to appropriate standard  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours ( Weeks 1 - 5)   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T M Law  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr T M Law  |               |                  |   |

| DI5305 Practical Theology Special Topic   |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | Either |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |        |
| <p>The project enables a student to research a special topic of his/her choice (in consultation with staff) and to develop it at length in dissertation form. The length of the dissertation should be approximately 6,000 words, and must not in any case exceed 7,000 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.</p> <p>This module is not routinely offered and may only be taken by special arrangement, with the agreement of the Head of School.</p> |   |               |                  |        |
| <b>Programme module type:</b>   | Optional for Biblical Languages and Literature or Scripture and Theology Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours.   |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |        |

| DI5415 Theology Special Topic: (Title to be confirmed)  |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | Either |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |        |
| <p>The project enables students to research a special topic under the guidance of a member of staff and to develop it at length in dissertation form. The length of the dissertation should be approximately 6,000 words, and must not in any case exceed 7,000 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.</p> <p>This module is not routinely offered and may only be taken by special arrangement, with the agreement of the Head of School.</p> |   |               |                  |        |
| <b>Programme module type:</b>   | Optional for Biblical Languages and Literature or Scripture and Theology or Systematic and Historical Theology Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours (Weeks 1 - 6)  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | Prof A Torrance   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof A Torrance   |               |                  |        |

## Divinity - PG Scripture and Theology - 2015/6 - November 2015

| DI5521 A Selected Modern Theologian   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Tue and 10.00 am - 12.00 noon Thu  |               |                  |   |
| This module will allow students to engage at length and in depth with the thought of a single, formative, thinker. Particular attention will be given to the deep systematic structures of the corpus, and to the ways in which historical and cultural context informs the theological interests and constructions of the thinker. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Systematic and Historical Theology, and for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours. (Weeks 7 - 11).  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof J Webster   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof J Webster   |               |                  |   |

| DI5522 A Selected Patristic Theologian  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Tue and 10.00 am - 12.00 noon Thu  |               |                  |   |
| This module will allow students to engage at length and in depth with the thought of a single, formative, thinker. Particular attention will be given to the deep systematic structures of the corpus, and to the ways in which historical and cultural context informs the theological interests and constructions of the thinker. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Systematic and Historical Theology, and for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4-hours of seminars. (Weeks 1 - 5, essay submitted Week 6)          |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Elliott   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Elliott   |               |                  |   |

| DI5523 The Doctrine of the Trinity   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 pm - 5.00 pm Tue and 3.00 pm - 5.00 pm Thu  |               |                  |   |
| This module will examine the development the doctrine of the Trinity from the fourth-century conciliar settlements down to the present day, paying particular attention to the context of, and the historical claims made by, writers associated with the late twentieth-century 'Trinitarian revival', and the place claimed for Trinitarian doctrine within systematic theology there. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Systematic and Historical Theology, and for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours (Weeks 1-5 essay submitted week 6)                          |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Holmes  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Holmes  |               |                  |   |

| DI5526 A Selected Mediaeval Theologian  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Mon and 9.00 am - 11.00 am Wed  |               |                  |   |
| This module will allow students to engage at length and in depth with the thought of a single, formative, thinker. Particular attention will be given to the deep systematic structures of the corpus, and to the ways in which historical and cultural context informs the theological interests and constructions of the thinker. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Systematic and Historical Theology, and for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours (weeks 7-11)  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr W Hyland  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr W Hyland  |               |                  |   |

## Masters in Systematic and Historical Theology

### Programme Requirements

**Taught Element:**

20 credits: DI5501

100 credits from: DI5415, DI5500 - DI5595, or may also include:

DI5080 and 30 - 40 credits: from a language (chosen from French (FR), German (GM), Greek (GK and DI) Hebrew (DI), Italian (IT), Persian (PR), Spanish (SP) language modules at the level appropriate to the student's level of proficiency.

In exceptional circumstances the Head of School may permit a student to take up to 40 credits in a 5000-level module offered by another School, or in Special Topic modules (DI5011, DI5115, DI5211, DI5305, DI5415) run by the School of Divinity.

**MLitt:**

120 credits from the Taught Element plus DI5099

### Compulsory modules:

| DI5501 The Origins of Christian Theology  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 9.00 am - 11.00 am Tue  |               |                  |   |
| This module examines the beginnings of Christian theology in the New Testament texts, and in early Christian writers. Themes considered may include the doctrine of God; early Christology; ecclesiology; and creation. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Scripture and Theology and Systematic and Historical Theology Postgraduate Programmes.<br>Optional for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours. (Weeks 1 - 6).  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Wolfe  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof N T Wright, Dr J Wolfe   |               |                  |   |

## Divinity - PG Systematic & Historical Theology - 2015/6 - November 2015

| DI5099 Dissertation for MLitt Programme/s   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                    |               |                  |   |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 (excluding bibliography) words must be submitted by a date specified in August. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MLitt Postgraduate Programmes within the School. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.                  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                                |               |                  |   |
| <b>Module Co-ordinator:</b>   | Assigned supervisors  |               |                  |   |

### Optional modules:

| DI5415 Theology Special Topic: (Title to be confirmed)   |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Either |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| The project enables students to research a special topic under the guidance of a member of staff and to develop it at length in dissertation form. The length of the dissertation should be approximately 6,000 words, and must not in any case exceed 7,000 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.<br>This module is not routinely offered and may only be taken by special arrangement, with the agreement of the Head of School. |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Biblical Languages and Literature or Scripture and Theology or Systematic and Historical Theology Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours (Weeks 1 - 6)  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Prof A Torrance   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof A Torrance   |               |                  |        |

| DI5521 A Selected Modern Theologian   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Tue and 10.00 am - 12.00 noon Thu  |               |                  |   |
| This module will allow students to engage at length and in depth with the thought of a single, formative, thinker. Particular attention will be given to the deep systematic structures of the corpus, and to the ways in which historical and cultural context informs the theological interests and constructions of the thinker. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Systematic and Historical Theology, and for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours. (Weeks 7 - 11).  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof J Webster   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof J Webster   |               |                  |   |



| DI5522 A Selected Patristic Theologian  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Tue and 10.00 am - 12.00 noon Thu  |               |                  |   |
| This module will allow students to engage at length and in depth with the thought of a single, formative, thinker. Particular attention will be given to the deep systematic structures of the corpus, and to the ways in which historical and cultural context informs the theological interests and constructions of the thinker. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Systematic and Historical Theology, and for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4-hours of seminars. (Weeks 1 - 5, essay submitted Week 6)          |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Elliott   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Elliott   |               |                  |   |

| DI5523 The Doctrine of the Trinity   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 pm - 5.00 pm Tue and 3.00 pm - 5.00 pm Thu  |               |                  |   |
| This module will examine the development the doctrine of the Trinity from the fourth-century conciliar settlements down to the present day, paying particular attention to the context of, and the historical claims made by, writers associated with the late twentieth-century 'Trinitarian revival', and the place claimed for Trinitarian doctrine within systematic theology there. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Systematic and Historical Theology, and for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours (Weeks 1-5 essay submitted week 6)                          |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Holmes  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Holmes  |               |                  |   |

| DI5526 A Selected Mediaeval Theologian  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Mon and 9.00 am - 11.00 am Wed  |               |                  |   |
| This module will allow students to engage at length and in depth with the thought of a single, formative, thinker. Particular attention will be given to the deep systematic structures of the corpus, and to the ways in which historical and cultural context informs the theological interests and constructions of the thinker. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Systematic and Historical Theology, and for Divinity Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours (weeks 7-11)  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr W Hyland  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr W Hyland  |               |                  |   |

## Divinity - PG Systematic & Historical Theology - 2015/6 - November 2015

| DI5080 Guided Study in Divinity   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Availability restrictions:</b>   | Available only to Taught Postgraduate students also doing one or more language modules   |               |                  |        |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>The project enables a student to research a special topic of his/her choice (in consultation with staff) and to develop it at length in an essay. The length of the essay should be approximately 3,000 words, and must not in any case exceed 3,500 words (to include text, footnotes and appendices). It must be submitted by the end of the semester.</p> <p>This module is not routinely offered and may only be taken by special arrangement, with the agreement of the Head of School.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Bible and Contemporary World, Biblical Languages and Literature, Scripture and Theology and Systematic and Historical Theology Postgraduate Programmes. |               |                  |        |
| <b>Co-requisite(s):</b>   | One or more language modules   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> To be arranged  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework (Essay) = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | TBC in consultation with Director of the programme   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | TBC in consultation with Director of the programme   |               |                  |        |

## Masters in Theology, Imagination and the Arts

### Programme Requirements

**Taught Element:**

40 credits: DI5431

80 credits: DI5441 and DI5442

**MLitt:**

120 credits from the Taught Element plus DI5099

### Compulsory modules:

| DI5431 Theological Engagements with the Arts: Rationales, Methods and Texts  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any other programme, except with the Permission of the Head of School. |               |                  |   |
| <b>Planned timetable:</b>  | 2.00 pm - 6.00 pm Thu  |               |                  |   |
| <p>The arts are central to most human cultures, and are widely valued as an important and enriching part of our existence together as creatures in God's world. Today there is a burgeoning interest in the arts among theologians and biblical scholars across the denominational and theological spectrum. But this takes many different forms and proceeds in some rather divergent directions. This module will investigate some basic questions of definition and rationale pertaining to the conversation between theology and the arts. Students will examine a representative selection of different accounts of and approaches taken to the conversation within this interdisciplinary field, earthing the generalities of theory in continuous attention to particular artistic texts.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Theology, Imagination and the Arts Postgraduate Programme.                                      |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 hours.  |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 40%, Coursework = 60%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Hopps   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr G Hopps   |               |                  |   |

## Divinity - PG Theology, Imagination and the Arts - 2015/6 - November 2015

| DI5441 Christian Doctrine and the Arts  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any other programme, except with the Permission of the Head of School. |               |                  |   |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Tue and 2.00 pm - 4.00 pm Fri  |               |                  |   |
| <p>This module will examine how the central articles of the Christian faith, as expressed in the Apostles' Creed, have been engaged by artists throughout the history of Christianity. For each article of the creed, one major artwork – visual, literary or musical – will serve as the locus for discussing changing theological approaches to that doctrine and for examining the artistic methods developed to engage it (often in ways inaccessible to non-artistic forms of expression). Each week, this central discussion will be consolidated by student-led consideration of smaller artworks. By the end of the semester, students will have gained a basic grasp of the historical development both of Christian doctrine and of Western art, and of the distinctive ways in which Christianity and artistic forms have challenged, influenced and enlarged each other, and continue to do so.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Theology, Imagination and the Arts Postgraduate Programme.                                      |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 40%, Coursework = 60%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Wolfe   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Wolfe, Dr O'Hear  |               |                  |   |

| DI5442 Religious Experience and Aesthetic Theory  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any other programme, except with the Permission of the Head of School. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Religion permeates the arts and, whatever our own beliefs, we will be affected by religion through various artistic media. How, then, do different art forms - painting, music, literature, drama, architecture, film - encourage different kinds of religious experience? What debates in theology have influenced their historical developments? Do certain styles of an art form bring to prominence one aspect of divinity rather than another? Can all art, however secular, be a channel for the divine? This module aims to help students address such questions critically in relation to artistic works in any media and from any period.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Theology, Imagination and the Arts Postgraduate Programme.                                      |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 40%, Coursework = 60%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr G Corbett   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr G Corbett, Dr O'Hear  |               |                  |   |

## Divinity - PG Theology, Imagination and the Arts - 2015/6 - November 2015

| DI5099 Dissertation for MLitt Programme/s   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                    |               |                  |   |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 (excluding bibliography) words must be submitted by a date specified in August. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MLitt Postgraduate Programmes within the School. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.                  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                                |               |                  |   |
| <b>Module Co-ordinator:</b>   | Assigned supervisors  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  |   |               |                  |   |

## School of Economics & Finance

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **Postgraduate Diploma:**

*(this is also the Taught element of the MLitt and MPhil programme):*

**Economics** ([link](#))

**Finance** ([link](#))

**Money, Banking and Finance** ([link](#))

#### **MSc:**

**Economics** ([link](#))

**Finance** ([link](#))

**Money, Banking and Finance** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Economics

**Taught Element:**

60 credits: EC5201 - EC5203

60 credits: EC5204 - EC5225, EC5604, EC5605, EC5606, EC5608, EC5610, EC5611, EC5722

**MSc:**

120 credits as for the Taught Element plus EC5299

### Compulsory modules:

| EC5201 Macroeconomics  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The module will provide a thorough advanced treatment of the core models and concepts used in modern macroeconomics; for example the infinite horizon Ramsey model and finite horizon overlapping generations model and models that have been used to characterise short term fluctuations, such as the real business cycle approach and the New Keynesian approach. Among other things, the module will seek to explain the development of microbased macroeconomic theory, use models to predict the impact of policy changes on endogenous variables and critique modelling assumptions, especially in the context of policy analysis. Students are expected to have a strong undergraduate level training in macroeconomics, microeconomics and relevant mathematical and statistical techniques. Before commencement of the module, supplementary lectures will be given on the relevant mathematical methods.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc In Economics Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>  | EC5801  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, 1 tutorial.          |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 75%, Coursework = 25%      |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr O Senay  |               |                  |   |

## Economics & Finance - Economics MSc - 2015/6 - November 2015

| EC5202 Microeconomics   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module will provide a thorough advanced treatment of the core models and concepts used in modern microeconomics. Microeconomic theory is concerned with the behaviour of individual economic actors (e.g. firms, consumers) and the aggregation of their actions in different institutional frameworks (e.g. markets), and models economic activity as an interaction of individual economic agents pursuing their private interests. Students will be presented with a set of concepts and mathematical techniques which will enable them to achieve a better understanding of economic activity and outcomes. This involves an understanding of how microeconomic models are built, focusing on their objective in terms of the phenomenon they are meant to explain, and the consequences of their assumptions in terms of the applicability of their predictions. Students are expected to have a strong undergraduate level training in macroeconomics, microeconomics and relevant mathematical and statistical techniques. Before commencement of the module, supplementary lectures will be given on the relevant mathematical methods.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Economics Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 1 tutorial.          |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 75%, Coursework = 25%      |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Negri, Dr K Ozbek                                  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Negri, Dr K Ozbek                                  |               |                  |   |

| EC5203 Econometric Methods and Applications  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| <p>This module will provide an advanced level training in aspects of econometric methods that is suitable for the basis for further work in econometrics and for understanding/being able to extract econometric techniques in published articles. The course will also give students the basis to support an empirical section in their MSc dissertation. Students are expected to have intermediate- level knowledge of matrix algebra, calculus and statistics. Before commencement of the module, supplementary lectures will be given on the relevant mathematical and statistical methods.</p> |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Economics Postgraduate Programme.                        |                      |                  |   |
| <b>Anti-requisite(s):</b>  | EC5609   | <b>Required for:</b> | EC5221           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, occasional practical classes and tutorials. |                      |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 75%, Coursework = 25%                             |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr I Merkurieva  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr I Merkurieva  |                      |                  |   |



## Compulsory for the MSc:

| EC5299 Dissertation in Economics   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| A dissertation in the form of a substantial extended theoretical/analytical/empirical essay/project on a topic relevant and appropriate to the MSc. A selection of potential topics will be identified by members of staff and it is expected that most students will choose one of these. Pre-dissertation training in basic generic research methods and dissertation writing will be provided during the second semester. Limited supervision will be available, notably to agree topics and outlines and to check progress, but students are expected to work largely on their own initiative. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for MSc in Economics Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Occasional lectures.             |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 10%, Dissertation = 90%                    |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M La Manna   |               |                  |            |

## Optional modules:

| EC5225 Experimental Economics  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will start by exposing students to the methodology of experimental economics. It will then review stylised facts and recent developments of its use to address various research questions in economics. The rise of the use of experimental methods in economics has created a useful dialogue between theoretical and laboratory-based empirical work. Typically, this process occurs as follows: experimental economists use human participants to test the behavioural implications of theoretical models in the laboratory; the new empirical evidence collected in the laboratory then suggests new venues for the development of novel theoretical models. This cycle then repeats itself. In this module we will sometimes consider such interplay between the development of theoretical models and the collection of empirical evidence in the laboratory.</p> <p>Topics covered in the module will include: experimental double and posted offer auctions in spot and forward markets; experimental asset markets; experiments on structured bargaining: finite alternating-offer bargaining games; experiments on strategic-form games; behavioural models of trading in markets and games. Students are expected to have undergraduate level training in microeconomics and statistics.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Economics, MSc in Money, Banking, and Finance Postgraduate Programmes.  |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to MSc Economics or a strong undergraduate training in microeconomics and relevant mathematical and statistical techniques. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, occasional tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 75%, Coursework (1,500-word Technical Essay) = 25%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof M Costa-Gomes  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof M Costa-Gomes  |               |                  |   |

| EC5604 Corporate Finance   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>In this module we investigate the problem of how a collection of corporate liabilities are affected in value by corporate actions. Possible actions include corporate investment decisions, decisions regarding the firm's financial structure, changes in management rules and compensation and changes in the scope, specialisation and legal environment of the corporation's business. As in the Pre-requisite(s) module, EC5601, we emphasise standard methods for solving problems under economic uncertainty. At the end of this module the student will have a good working knowledge of institutions and the theory and valuation methods used worldwide in major corporations and financial institutions.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Finance Postgraduate Programme.<br>Optional for MSc in Economics Postgraduate Programme. |               |                  |   |
| <b>Pre-requisite(s):</b>   | EC5601   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Shea  |               |                  |   |

| EC5605 Monetary Policy  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm Thu   |               |                  |   |
| <p>This module will cover key issues in monetary policy. Topics will include: the case for price stability; time inconsistency and policy; the trade-off between inflation bias and output stabilisation; unconventional monetary policies; inflation targeting and other monetary frameworks; and the conduct of monetary policy in leading countries.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Money, Banking and Finance Postgraduate Programme.<br>Optional for MSc in Economics Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof A Hughes-Hallett   |               |                  |   |

| EC5606 Corporate Governance and Risk  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 9.00 am Tue.  |               |                  |   |
| Three key components: (1) corporate governance; (2) risk management; and (3) financial management. Detailed content may vary year by year, but typically would include: mergers, takeovers, corporate control, governance, financial architecture, risk capital; risk in corporate and international settings; market consequences of managerial behaviour; corporate governance in family firms; financial distress and bankruptcy resolution. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Economics, MSc in Finance, in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | EC5601  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr G Zhu  |               |                  |   |

| EC5608 Financial Intermediation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am Wed   |               |                  |   |
| This module will cover the main theoretical issues involved in financial intermediation, from the existence of banks through credit rationing and optimal contracts to bank runs, central banks and regulation. The module will concentrate on analytical models, but there will be some reference to current issues in existing financial systems. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Money, Banking and Finance Postgraduate Programme.<br>Optional for MSc in Economics, MSc in Finance Finance Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Trew  |               |                  |   |

| EC5611 Portfolio Theory and Management   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am Mon  |               |                  |   |
| This module aims to develop students' knowledge and understanding of key issues in asset allocation and portfolio composition/management at an advanced level. Moreover it aims to provide students with the opportunity to develop their ability to critically understand current theoretical and empirical research in the field of portfolio management and the implications of such research into alternative portfolio composition and management strategies. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Finance Postgraduate Programme.<br>Optional for MSc in Economics, MSc in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, occasional seminars and tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 70%, Coursework = 30%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Zhu   |               |                  |   |

| EC5722 Risk Management  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 4.00 pm Tue.   |               |                  |   |
| <p>This module provides the student with an introduction to classical techniques in risk and insurance. The implementation of sound quantitative risk models to assess and insure against risk is a vital concern for all financial institutions. The module provides a comprehensive treatment of the theoretical concepts and modeling techniques of quantitative risk management, and provides students with practical tools to solve real world problems. Specific topics covered include: portfolio management, real options, operational risk, credit risk and pension fund modeling.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Economics, MSc in Finance and MSc in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | EC5601   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L Chollete  |               |                  |   |

## Masters in Finance

### *Taught Element:*

100 credits: EC5601, EC5604, EC5609, EC5611, EC5901

20 credits: EC5606, EC5608, EC5722

### **MSc:**

120 credits as for the Taught Element plus EC5699

### Compulsory modules:

| EC5601 Investment Analysis   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |   |
| <p>This module introduces the basic concepts of investment value analysis. Investments cover real economic projects such as those undertaken by corporations and governments, as well as financial investments, which are regularly priced and traded in financial markets. The ultimate aim is to provide the student with a standard approach to define, measure and predict value of investments in a world of uncertainty and asymmetric information. The tradeoff between risk and return is defined, and economic models of how risks and returns are determined and traded in financial markets are applied to solve any investment analysis problem. The valuation problems covered in this module involve corporate investments, a wide range of corporate liabilities such as shares and bonds, and associated financial contracts such as options. The module presents a standard framework to analyse agency problems that prevail in corporate financial decisions such as CEO compensation and performance assessment.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Finance Postgraduate Programme. |               |                  |   |
| <b>Required for:</b>   | EC5604, EC5606, EC5722                                |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture or 1 seminar.        |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%    |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L Chollete   |               |                  |   |

## Economics & Finance - Postgraduate Course Catalogue 2015/6 - November 2015

| EC5604 Corporate Finance   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>In this module we investigate the problem of how a collection of corporate liabilities are affected in value by corporate actions. Possible actions include corporate investment decisions, decisions regarding the firm's financial structure, changes in management rules and compensation and changes in the scope, specialisation and legal environment of the corporation's business. As in the Pre-requisite(s) module, EC5601, we emphasise standard methods for solving problems under economic uncertainty. At the end of this module the student will have a good working knowledge of institutions and the theory and valuation methods used worldwide in major corporations and financial institutions.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Finance Postgraduate Programme.<br>Optional for MSc in Economics Postgraduate Programme. |               |                  |   |
| <b>Pre-requisite(s):</b>   | EC5601   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Shea  |               |                  |   |

| EC5609 Financial Econometrics   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module will introduce the students to the theory and practice of financial econometrics. The module will begin by introducing students to the classical linear regression model and a number of issues regarding its application to real world data. The module will then develop a number of time-series techniques that can be applied to the study of financial economics. Topics covered include: the linear univariate stochastic model, multivariate models, unit root processes and co-integration. By the end of the module students should be able to undertake empirical analysis using financial data.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Finance, and in Money, Banking and Finance Postgraduate Programmes.                        |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures per week (x9 weeks). 2 hours x 4 weeks of labs (weeks 2 or 3, 4 or 5, 7 and 9) |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L Barbopoulos   |               |                  |   |

| EC5611 Portfolio Theory and Management   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module aims to develop students' knowledge and understanding of key issues in asset allocation and portfolio composition/management at an advanced level. Moreover it aims to provide students with the opportunity to develop their ability to critically understand current theoretical and empirical research in the field of portfolio management and the implications of such research into alternative portfolio composition and management strategies. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Finance Postgraduate Programme.<br>Optional for MSc in Economics and MSc in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, occasional seminars and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 70%, Coursework = 30%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Zhu  |               |                  |   |

| EC5901 International Finance   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| The module will cover key issues in international finance. Topics will include analyzing models of exchange rate determination, both nominal and real; and analysis of the determinants of international capital flows. The module will introduce a range of analytical models, together with a range of empirical and policy-oriented material. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Finance, and in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Stefanski  |               |                  |   |

### Compulsory module for MSc:

| EC5699 Finance Dissertation   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with supervisor.              |               |                  |            |
| A dissertation in the form of a substantial extended theoretical/analytical/empirical essay/project on a topic relevant and appropriate to the MSc. A selection of potential topics will be identified by members of staff and it is expected that most students will choose one of these. Limited supervision is available, notably to agree topics and outlines and to check progress, but students are expected to work largely on their own initiative. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for MSc in Finance Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Supervision.                   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                      |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M La Manna   |               |                  |            |

## Optional modules:

| EC5606 Corporate Governance and Risk  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 9.00 am Tue.  |               |                  |   |
| Three key components: (1) corporate governance; (2) risk management; and (3) financial management. Detailed content may vary year by year, but typically would include: mergers, takeovers, corporate control, governance, financial architecture, risk capital; risk in corporate and international settings; market consequences of managerial behaviour; corporate governance in family firms; financial distress and bankruptcy resolution. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Economics, MSc in Finance, MSc in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | EC5601  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr G Zhu  |               |                  |   |

| EC5608 Financial Intermediation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10 am Wed  |               |                  |   |
| This module will cover the main theoretical issues involved in financial intermediation, from the existence of banks through credit rationing and optimal contracts to bank runs, central banks and regulation. The module will concentrate on analytical models, but there will be some reference to current issues in existing financial systems. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Money, Banking and Finance Postgraduate Programme.<br>Optional for MSc in Economics, MSc in Finance Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Trew  |               |                  |   |



| EC5722 Risk Management  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module provides the student with an introduction to standard techniques in risk and insurance. The implementation of sound quantitative risk models to assess and insure against risk is a vital concern for all financial institutions. The module provides a comprehensive treatment of the theoretical concepts and modelling techniques of quantitative risk management. It provides students with practical tools to solve real world problems, in the context of portfolio management and credit risk. A major theme underlying all topics is the importance of ambiguity, especially regarding partial knowledge of asset distributions and investor preferences. Throughout we will relate the class discussion to current economic conditions.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Economics, MSc in Finance and MSc in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | EC5601   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L Chollete  |               |                  |   |

## Masters in Money, Banking and Finance

### *Taught Element:*

100 credits: EC5605, EC5608, EC5609, EC5801, EC5901

20 credits: EC5225, EC5606, EC5610, EC5611, EC5722

### **MSc:**

120 credits as for the Taught Element plus EC5899

### Compulsory modules - Semester 1:

| EC5609 Financial Econometrics   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module will introduce the students to the theory and practice of financial econometrics. The module will begin by introducing students to the classical linear regression model and a number of issues regarding its application to real world data. The module will then develop a number of time-series techniques that can be applied to the study of financial economics. Topics covered include: the linear univariate stochastic model, multivariate models, unit root processes and co-integration. By the end of the module students should be able to undertake empirical analysis using financial data.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Finance, and in Money, Banking and Finance Postgraduate Programmes.                        |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures per week (x9 weeks). 2 hours x 4 weeks of labs (weeks 2 or 3, 4 or 5, 7 and 9) |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L Barbopoulos   |               |                  |   |

| EC5801 Money and Banking  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module provides an introduction to the economics of money, banking and financial markets. It aims to present students with a general overview of key monetary and financial market phenomena, the basic workings of financial and money markets and the tools and conduct of monetary policy. The module covers topics such as how financial markets and institutions operate, the risk and term structure of interest rates, financial regulation and supervision, and central banking among others.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Money, Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.                           |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr G Forgues-Puccio  |               |                  |   |

| EC5901 International Finance   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| The module will cover key issues in international finance. Topics will include analyzing models of exchange rate determination, both nominal and real; and analysis of the determinants of international capital flows. The module will introduce a range of analytical models, together with a range of empirical and policy-oriented material. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Finance, and in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | DR R Stefanski  |               |                  |   |

## Compulsory modules - Semester 2:

| EC5605 Monetary Policy   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 2.00 pm Thu   |               |                  |   |
| This module will cover key issues in monetary policy. Topics will include: the case for price stability; time inconsistency and policy; the trade-off between inflation bias and output stabilisation; unconventional monetary policies; inflation targeting and other monetary frameworks; and the conduct of monetary policy in leading countries. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Money, Banking and Finance Postgraduate Programme.<br>Optional for MSc in Economics Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, 3 tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Hughes-Hallett   |               |                  |   |

| EC5608 Financial Intermediation   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am Wed   |               |                  |   |
| This module will cover the main theoretical issues involved in financial intermediation, from the existence of banks through credit rationing and optimal contracts to bank runs, central banks and regulation. The module will concentrate on analytical models, but there will be some reference to current issues in existing financial systems. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Money, Banking and Finance Postgraduate Programme.<br>Optional for MSc in Economics, MSc in Finance Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Trew  |               |                  |   |

**Compulsory module for MSc:**

| EC5899 Dissertation in Money, Banking and Finance  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| A dissertation in the form of a substantial extended theoretical/analytical/empirical essay/project on a topic relevant and appropriate to the MSc A selection of potential topics will be identified by members of staff and it is expected that most students will choose one of these. Limited supervision is available, notably to agree topics and outlines and to check progress, but students are expected to work largely on their own initiative. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for MSc in Money, Banking and Finance Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Supervision.                                      |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M La Manna  |               |                  |            |

**Optional modules:**

| EC5225 Experimental Economics  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will start by exposing students to the methodology of experimental economics. It will then review stylised facts and recent developments of its use to address various research questions in economics. The rise of the use of experimental methods in economics has created a useful dialogue between theoretical and laboratory-based empirical work. Typically, this process occurs as follows: experimental economists use human participants to test the behavioural implications of theoretical models in the laboratory; the new empirical evidence collected in the laboratory then suggests new venues for the development of novel theoretical models. This cycle then repeats itself. In this module we will sometimes consider such interplay between the development of theoretical models and the collection of empirical evidence in the laboratory.</p> <p>Topics covered in the module will include: experimental double and posted offer auctions in spot and forward markets; experimental asset markets; experiments on structured bargaining: finite alternating-offer bargaining games; experiments on strategic-form games; behavioural models of trading in markets and games. Students are expected to have undergraduate level training in microeconomics and statistics.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Economics, in Money, Banking and Finance Postgraduate Programmes.   |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to MSc Economics or a strong undergraduate training in microeconomics and relevant mathematical and statistical techniques. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, occasional tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 75%, Coursework (1,500-word Technical Essay) = 25%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof M Costa-Gomes  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof M Costa-Gomes  |               |                  |   |

| EC5606 Corporate Governance and Risk  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 9.00 am Tue   |               |                  |   |
| Three key components: (1) corporate governance; (2) risk management; and (3) financial management. Detailed content may vary year by year, but typically would include: mergers, takeovers, corporate control, governance, financial architecture, risk capital; risk in corporate and international settings; market consequences of managerial behaviour; corporate governance in family firms; financial distress and bankruptcy resolution. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Economics, MSc in Finance, MSc in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | EC5601  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr G Zhu  |               |                  |   |

| EC5611 Portfolio Theory and Management   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am Mon  |               |                  |   |
| This module aims to develop students' knowledge and understanding of key issues in asset allocation and portfolio composition/management at an advanced level. Moreover it aims to provide students with the opportunity to develop their ability to critically understand current theoretical and empirical research in the field of portfolio management and the implications of such research into alternative portfolio composition and management strategies. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Finance Postgraduate Programme.<br>Optional for MSc in Economics, MSc in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures, occasional seminars and tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 70%, Coursework = 30%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Zhu   |               |                  |   |

| EC5722 Risk Management  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module provides the student with an introduction to standard techniques in risk and insurance. The implementation of sound quantitative risk models to assess and insure against risk is a vital concern for all financial institutions. The module provides a comprehensive treatment of the theoretical concepts and modelling techniques of quantitative risk management. It provides students with practical tools to solve real world problems, in the context of portfolio management and credit risk. A major theme underlying all topics is the importance of ambiguity, especially regarding partial knowledge of asset distributions and investor preferences. Throughout we will relate the class discussion to current economic conditions.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Economics, MSc in Finance and in Money, Banking and Finance Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | EC5601   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L Chollete  |               |                  |   |

## School of English

### Taught Programmes

*Click on title to jump to detailed pdf of that programme*

#### **Postgraduate Diploma:**

*(this is also the Taught element of the MLitt and MPhil programme):*

**Creative Writing** ([link](#))

**Mediaeval English** ([link](#))

**Modern and Contemporary Literature and Culture** ([link](#))

**Romantic /Victorian Studies** *(not available 2015-2016)*

**Shakespeare and Renaissance Literary Culture** ([link](#))

**Women, Writing and Gender** ([link](#))

#### **MLitt:**

**Creative Writing** ([link](#))

**Mediaeval English** ([link](#))

**Modern and Contemporary Literature and Culture** ([link](#))

**Romantic /Victorian Studies** *(not available 2015-2016)*

**Shakespeare and Renaissance Literary Culture** ([link](#))

**Women, Writing and Gender** ([link](#))

#### **MFA:**

**Creative Writing** ([link](#))

#### **MPhil:**

**Mediaeval English** ([link](#))

**Modern and Contemporary Literature and Culture** ([link](#))

**Romantic /Victorian Studies** *(not available 2015-2016)*

**Shakespeare and Renaissance Literary Culture** ([link](#))

**Women, Writing and Gender** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Creative Writing

### *Taught Element:*

20 credits: EN5101

100 credits EITHER (EN5004 and EN5005), OR (EN5006 and EN5007), OR (EN5105 and EN5106)

### **MLitt:**

120 credits as for the Taught Element plus EN5099

### **MFA:**

120 credits as for the Taught Element plus EN5801 and for writers of prose, a thesis of c. 40,000 words; for writers of poetry, a thesis of c. 40 pp. of verse; for writers for performance, a thesis of c. 90 minutes performance time.

Both degrees are designed to enable students to undertake a detailed study of poetry, prose, or writing for performance from the perspectives of practical, creative literary skills as well as those of criticism and the historical development of literary forms.

## Compulsory modules:

| EN5101 Research Skills for Creative Writing   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Available only to students on MLitt /MFA/PhD in Creative Writing |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| Students will be introduced to skills dedicated to the effective gathering of information through IT resources, library materials, as well as such primary skills as proofreading, copy-editing and basic literary theory. They will also learn about the literary marketplace, and the roles of editors, publishers, agents and festival organisers. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Creative Writing Postgraduate Programme.          |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Normally 1 seminar                        |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof J Burnside  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Available only to School of English postgraduate students           |               |                  |            |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                        |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted on or by 19 <sup>th</sup> August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all MLitt Postgraduate Programmes within the School. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | Individual supervision  |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Director of Postgraduate Studies                                    |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                                   |               |                  |            |



EITHER:

| EN5004 Writing Poetry 1  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Available only to students on MLitt /MFA in Creative Writing (Poetry)            |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| The module considers a range of essential topics in poetry and its composition, including the creative process, sound and sentence, the poetic line, imagery, metaphor, metre and meaning. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Creative Writing Postgraduate Programme.                            |               |                  |   |
| <b>Required for:</b>   | EN5005   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar and 1 practical class; tutorials by appointment |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof D Paterson  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

AND

| EN5005 Writing Poetry 2   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Available only to students on MLitt /MFA in Creative Writing (Poetry)            |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| Students will extend their knowledge of poetry and its creation into more technical aspects of writing than were covered in depth in EN5004 Writing Poetry 1; the module will include detailed critical analyses of poems, as well as ideas of poetic traditions, rhetorical figure, trope, structure and form. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Creative Writing Postgraduate Programme.                            |               |                  |   |
| <b>Pre-requisite(s):</b>  | EN5004   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar and 1 practical class; tutorials by appointment |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof D Paterson  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

OR:

| EN5006 Writing Prose 1  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Available only to students on MLitt /MFA in Creative Writing (Prose)             |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| The module offers a critical and practical study of the writing of literary prose, including short and long fiction, as well as the literary essay, life writing and other non-fiction forms. Emphasis is given to the development of a literary prose tradition through the nineteenth and early twentieth centuries, looking at a variety of approaches, from the novel to New Journalism to the literary essays of such figures as Gore Vidal and Joan Didion. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Creative Writing Postgraduate Programme.                            |               |                  |   |
| <b>Required for:</b>  | EN5007   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar and 1 practical class; tutorials by appointment |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Ms R Thomas  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

AND

| EN5007 Writing Prose 2   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Available only to students on MLitt /MFA in Creative Writing (Prose)             |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| Students will extend their study of prose writing and its techniques through discussion and critical and practical analysis. Emphasis will be given to exploring the wider possibilities of prose writing, with reference to the work of those contemporary or recent writers whose work defies easy categorisation, such as W.G. Sebald and John Haskell. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Creative Writing Postgraduate Programme.                            |               |                  |   |
| <b>Pre-requisite(s):</b>   | EN5006   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar and 1 practical class; tutorials by appointment |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Ms L G Glaister  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

## English - Creative Writing MLitt & MFA - 2015/6 - November 2015

OR:

| EN5105 Writing for Performance 1  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Available only to students on MLitt /MFA in Creative Writing (Writing for Performance)                     |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>This module is designed to introduce key playwriting skills as well as writing for younger audiences and radio. There will be focus on new writing, and a particular emphasis on Scottish work and its place within contemporary theatre practice. Seminars will explore technical aspects of playwriting such as setting, character, and dialogue; in addition they will examine how playwrights challenge their audience. There is a growing audience for theatre for children, and the module will look at key practitioners in this area; in 'writing for radio', it will also address the techniques involved in writing for a mass audience.</p> <p>Teaching will be by a) one two hour seminar per week and b) one dramaturgical workshop per week.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Creative Writing Postgraduate Programme   |               |                  |   |
| <b>Required for:</b>  | EN5106   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact</b> 2-hour radio/audio listening 1 seminar, 1 workshop, and 1 optional consultative hour |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Mr O Emanuel   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Mr O Emanuel & Ms Z K Harris   |               |                  |   |

AND

| EN5106 Writing for Performance 2   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Available only to students on MLitt /MFA in Creative Writing (Writing for Performance)                      |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module is designed to consolidate playwriting skills acquired in WFP I and to introduce writing for screen. Seminars will focus on both the technical aspects of writing a play or screenplay, such as dialogue, characterization, image structure and dramatic action, as well as style, metaphor, the individual voice of the playwright/screenwriter, and the ambition and reach of the contemporary play or film in a wider context.</p> <p>Teaching will be by a) one two hour seminar per week and b) one dramaturgical workshop per week.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Creative Writing Postgraduate Programme  |               |                  |   |
| <b>Pre-requisite(s):</b>   | EN5105  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar, 1 workshop, 4 hours film/video viewing, and 1 optional consultative hour. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Ms Z K Harris   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms Z K Harris and Mr O Emanuel  |               |                  |   |

| EN5801 Practical Pedagogy for Creative Writers   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| <p>The module covers many aspects of teaching Creative Writing from a practical and theoretical perspective, including teaching close reading, workshop and feedback styles, and 'the writing exercise'. Students will also design their own teaching project in consultation with the tutor, and practical fieldwork will be undertaken. In addition it will contain a group publishing exercise, where students will learn first-hand about the role of publishing in the dissemination and teaching of CW by creating an online magazine, in the process learning about editing, proofreading, formatting, publication, marketing and distribution.</p> |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the MFA in Creative Writing (Y2)                                  |               |                  |            |
| <b>Pre-requisite(s):</b>   | 120 credits from Creative Writing programme                                      |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar (x 8 weeks) 2 hours fieldwork (x 12 weeks) |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Prof D Paterson  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |            |

## Masters in Mediaeval English

### *Taught Element:*

20 credits: EN5100

80 credits: EN5015, EN5017, EN5018

20 credits: EN5401 or EN5402 or another approved 5000-level module, within or outwith the School of English

### **MLitt:**

120 credits as for the Taught Element, plus EN5099

### **MPhil:**

120 credits as for the Taught Element, plus a thesis of not more than 40,000 words

This degree is designed to equip students with the linguistic skills and the literary, cultural and historical background necessary to undertake further study in any area of Mediaeval English literature, from its earliest beginnings in the Anglo-Saxon period to the close of the Middle Ages.

## Compulsory modules:

| EN5100 Literary Research: Skills and Resources   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| This module is compulsory for all School of English MLitt programmes, except Creative Writing. It aims to initiate students in the understanding and use of the essential skills and resources of research in English Studies. It provides preparation for the MLitt dissertation. Elements include Use of Library Resources (Printed, Electronic and Remote); History of Book Production and the Institutions of Publishing; Scholarly Editing; Professional Proofreading and Copy-Editing, and Getting your Work Published. This general module leads on to the more specialist compulsory modules of each individual MLitt. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for all MLitt Postgraduate Programmes within the School, except Creative Writing |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar or workshop  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M C Augustine  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5015 Reading the Mediaeval Text  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module is designed to provide or enhance some of the specific skills and areas of knowledge necessary for undertaking research in mediaeval literature. Students will study Paleography and Codicology with specialists from the Special Collections department of the University Library. This will be followed by study of editorial theory and practice, and the traditional periodisation of mediaeval English literature. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Mediaeval English Postgraduate Taught Programme<br>Optional for students of any other MLitt Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M R Purdie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

English - Mediaeval English MLitt & MPhil - 2015/6 - November 2015

| EN5017 Old English   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |            |
| <p>A grounding in Old English grammar and translation from Old English will be acquired with the help of grammar exercises and translation practice on original Old English texts. It is recognised that students may join this module with widely varying levels of experience of Old English, from none to fairly extensive. The aim is to get all students to an acceptable level of proficiency in reading and translation, and this is reflected in the assessment of this module by two translation exercises. Time and students' linguistic expertise permitting, some literary contextualisation of the texts studied and translated may also be included. An electronic component (module website, databases, internet tools) will assist students in their acquisition of the necessary knowledge of Old English grammar, vocabulary and syntax.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Mediaeval English Postgraduate Programme<br>Optional for students of any other MLitt Postgraduate Programmes |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr C Rauer  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Rauer and Dr C S Jones   |               |                  |            |

| EN5018 Middle English Literature in Context   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |            |
| <p>This module teaches culturally central Middle English and Scottish texts from the later Middle Ages within their wider cultural context.. Fortnightly seminars examine a historical and generic variety of major literary texts produced from 1200 to 1500. Syllabus texts range from the early Worcester Fragments, studied in their manuscript context, to Scots writers (and St Andrews graduates!) such as Gavin Douglas, whose work stretches into the early sixteenth century. Examples of key medieval genres such as saints' lives and romance are compared to their sources, counterparts or influences in other languages or earlier forms of English.</p> |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Mediaeval English Postgraduate Taught Programme<br>Optional for the MLitt in English Studies, MLitt in Shakespeare and Renaissance Literary Culture, or MLitt in Mediaeval Studies Postgraduate Taught Programmes |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Normally 1 seminar per fortnight.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr C S Jones   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |            |

| EN5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Available only to School of English postgraduate students           |               |                  |            |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                        |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted on or by 19 <sup>th</sup> August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all MLitt Postgraduate Programmes within the School. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | Individual supervision  |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Director of Postgraduate Studies                                    |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                                   |               |                  |            |

### Optional modules - choose 1:

| EN5115 Women, Writing and Gender 1: Renaissance to Romanticism  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| The module seeks to introduce students to a range of debates concerning women, writing and gender through history. The set texts embrace a variety of generic forms, and reflect upon such questions as the 'problem' of woman's voice. Central to many of the works are such concerns as the role of woman in marriage and civic society, the importance of education, and the tension between domestic ideology and female desire. Central to these works is a concern with constructions of femininity and masculinity and in conjunction with EN5112, the module will also examine current critical debates surrounding the cultural configuration of gender. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof S C Sellers and Dr C M Alt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |   |

| EN5116 Women, Writing and Gender 2: Victorian to Contemporary  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module continues the chronological survey of debates surrounding women, writing and gender begun by EN5115. The module examines continuity and change in constructions of gender across the period 1800 to the present. Students will be introduced to key critical readings of nineteenth-century women's writing before moving on to consider the emergence of the 'new woman' at the fin de siècle. In the twentieth century the module will consider the work of modernist writers alongside 'middlebrow' and popular fictions. Finally students will examine a range of contemporary writers whose rewriting of history and myth engages with current debates in gender theory.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Pre-requisite(s):</b>   | EN5115  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5301 The Continental Renaissance  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>English literature did not develop in isolation, but in response to continental writing. This module will investigate the relationship between the literature of the English Renaissance and the European vernaculars of the period. It will examine continental texts, their early modern English translations, and English work influenced by them. Possible topics for discussion include: Petrarch's sonnets and their English imitators and adaptors; Ariosto's Orlando Furioso; the political writing of Machiavelli; and Castiglione's Libro del Cortegiano and its influence. All texts will be taught in English.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |



| EN5303 Renaissance Popular Culture  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| <p>This module aims to build upon the themes explored in EN5304, 'Learned Culture'. Here, the emphasis is less upon rhetoric and classroom practice in the sixteenth century, and more upon Renaissance literature's engagement with a wider field of influences and practice, explored as aspects of 'the popular' in its widest sense. Themes for discussion may include: the place of the stage; popular festivity and literary form; ballads and print; jests and alehouses; the impact of the Reformation. Texts to be discussed may include: Shakespeare's <i>The Winter's Tale</i>; law and popular culture; the poetry of Robert Herrick.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme.<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |   |

| EN5304 Learned Culture: Rhetoric, Politics and Identity   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>This module investigates the learned culture of Renaissance England, with a particular focus on the teaching of rhetoric in the grammar school classroom and its relevance to the literary production of the period. Topics covered may include: figures of speech; rhetoric and gender; the controversial plot; and the politics of Renaissance humanism.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A L Davis   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

## English - Mediaeval English MLitt & MPhil - 2015/6 - November 2015

| EN5401 Special Topic in English Studies 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module operates as a directed reading programme which allows students to explore topics in greater depth than is possible in core modules. Special Topics are offered by selected staff across all MLitt programmes on a rotating basis. Students who hope to go on to doctoral work may wish to use the Special Topic to conduct a pilot study in their proposed area of doctoral studies. Teaching/supervision is normally via 6 tutorials which may be individual or arranged in groups, depending on numbers. Some special topics may make use of relevant individual seminars on extant modules in place of one or more tutorials. Syllabus and reading will be finalised in consultation with the member(s) of staff..</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for students of any MLitt Postgraduate Programmes    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Normally 6 tutorials over the semester |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Director of the relevant MLitt programme                      |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Individually allocated supervisor                             |               |                  |   |

| EN5402 Special Topic in English Studies 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| <p>This module operates as a directed reading programme which allows students to explore topics in greater depth than is possible in core modules. Special Topics are offered by selected staff across all MLitt programmes on a rotating basis. Students who hope to go on to doctoral work may wish to use the Special Topic to conduct a pilot study in their proposed area of doctoral studies. Teaching/supervision is normally via 6 tutorials which may be individual or arranged in groups, depending on numbers. Some special topics may make use of relevant individual seminars on extant modules in place of one or more tutorials. Syllabus and reading will be finalised in consultation with the member(s) of staff.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for students of any MLitt Postgraduate Programmes    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Normally 6 tutorials over the semester |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Director of the relevant MLitt. programme                     |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                             |               |                  |   |

| EN5501 Contextualising the Modern   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>Modernism, in its narrowest sense, refers to the radical literary experiments that occurred in English poetry and prose in the aftermath of the First World War by writers such as T.S. Eliot, James Joyce and Virginia Woolf. This module will explore those experiments in the context of the wider movements in culture and society that informed literary modernism in the first decades of the twentieth century.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>  | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5502 Reading the Modern  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>Responding to what Pericles Lewis has termed the 'crisis of representation' in the opening decades of the twentieth century, this module explores attempts by writers to find new literary subjects and forms. In tandem with module EN5501, which considers the impact of political, social, scientific, technological and cultural revolution on literary traditions and techniques, this module explores the pursuit of a number of influential British, American and French modernists to develop modes of representation compatible with a newly urban, industrialised, mass-oriented age.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>   | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5511 Theorising the Contemporary   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>The second half of the twentieth century and the beginning of the twenty-first century witnessed an explosion of theories about literature and culture in an attempt to understand the complexities of a historical period characterised by political, economic and social upheaval and rapid advancements in science and technology. This module will introduce students to key literary and cultural theories within the contemporary period via the close study of selected theoretical texts. Theories covered may include Marxism, postmodernism, deconstruction, poststructuralism, postcolonialism, queer theory, ecocriticism and contemporary poetics.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5512 Contemporary Literature and Culture   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>In tandem with the theoretical and philosophical perspectives studied on EN5511, this module introduces students to a range of late twentieth and early twenty-first century writing. Focussed through both national and international perspectives, this module provides the opportunity to reflect on the proliferation of diverse literatures and other forms of cultural production in the contemporary world. The course is designed to expose students to a range of contemporary authors, poets and playwrights, moving between a detailed focus on highlighted key works and a wider a perspective on individual writer's oeuvres. Topics and themes may include: ecocriticism, postmodernism, terrorism, genre, magical realism, experimental writing, sexualities, globalisation and postcolonialism.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

## Masters in Modern and Contemporary Literature and Culture

### *Taught Element:*

20 credits: EN5100

80 credits: EN5501, EN5502, EN5511, EN5512

20 credits: EN5401 or EN5402 or another approved 5000-level module, within or outwith the School of English

### **MLitt:**

120 credits as for the Taught Element, plus EN5099

### **MPhil:**

120 credits as for the Taught Element, plus a thesis of not more than 40,000 words

This degree navigates the key texts, contexts and theories that have shaped literature and culture from c.1900 to the present. Covering a range of topics and texts from across the period, the programme aims to enhance students' textual knowledge and promote thinking about the interconnections between modern and contemporary literature and their historical, cultural and theoretical contexts.

### Compulsory modules:

| EN5100 Literary Research: Skills and Resources   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| This module is compulsory for all School of English MLitt programmes, except Creative Writing. It aims to initiate students in the understanding and use of the essential skills and resources of research in English Studies. It provides preparation for the MLitt dissertation. Elements include Use of Library Resources (Printed, Electronic and Remote); History of Book Production and the Institutions of Publishing; Scholarly Editing; Professional Proofreading and Copy-Editing, and Getting your Work Published. This general module leads on to the more specialist compulsory modules of each individual MLitt. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for all MLitt Postgraduate Programmes within the School, except Creative Writing |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar or workshop  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M C Augustine  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

## English - Modern and Contemporary MLitt & MPhil - 2015/6 - November 2015

| EN5501 Contextualising the Modern   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>Modernism, in its narrowest sense, refers to the radical literary experiments that occurred in English poetry and prose in the aftermath of the First World War by writers such as T.S. Eliot, James Joyce and Virginia Woolf. This module will explore those experiments in the context of the wider movements in culture and society that informed literary modernism in the first decades of the twentieth century.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>  | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5502 Reading the Modern  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>Responding to what Pericles Lewis has termed the 'crisis of representation' in the opening decades of the twentieth century, this module explores attempts by writers to find new literary subjects and forms. In tandem with module EN5501, which considers the impact of political, social, scientific, technological and cultural revolution on literary traditions and techniques, this module explores the pursuit of a number of influential British, American and French modernists to develop modes of representation compatible with a newly urban, industrialised, mass-oriented age.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>   | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5511 Theorising the Contemporary   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>The second half of the twentieth century and the beginning of the twenty-first century witnessed an explosion of theories about literature and culture in an attempt to understand the complexities of a historical period characterised by political, economic and social upheaval and rapid advancements in science and technology. This module will introduce students to key literary and cultural theories within the contemporary period via the close study of selected theoretical texts. Theories covered may include Marxism, postmodernism, deconstruction, poststructuralism, postcolonialism, queer theory, ecocriticism and contemporary poetics.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5512 Contemporary Literature and Culture  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>In tandem with the theoretical and philosophical perspectives studied on EN5511, this module introduces students to a range of late twentieth and early twenty-first century writing. Focalised through both national and international perspectives, this module provides the opportunity to reflect on the proliferation of diverse literatures and other forms of cultural production in the contemporary world. The course is designed to expose students to a range of contemporary authors, poets and playwrights, moving between a detailed focus on highlighted key works and a wider a perspective on individual writer's oeuvres. Topics and themes may include: ecocriticism, postmodernism, terrorism, genre, magical realism, experimental writing, sexualities, globalisation and postcolonialism.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

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| EN5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Available only to School of English postgraduate students           |               |                  |            |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                        |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted on or by 19 <sup>th</sup> August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all MLitt Postgraduate Programmes within the School. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | Individual supervision  |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Director of Postgraduate Studies                                    |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                                   |               |                  |            |

### Optional modules - choose 1:

| EN5015 Reading the Mediaeval Text  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module is designed to provide or enhance some of the specific skills and areas of knowledge necessary for undertaking research in mediaeval literature. Students will study Paleography and Codicology with specialists from the Special Collections department of the University Library. This will be followed by study of editorial theory and practice, and the traditional periodisation of mediaeval English literature. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Mediaeval English Postgraduate Programme<br>Optional for students of any other MLitt Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M R Purdie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5017 Old English  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |            |
| A grounding in Old English grammar and translation from Old English will be acquired with the help of grammar exercises and translation practice on original Old English texts. It is recognised that students may join this module with widely varying levels of experience of Old English, from none to fairly extensive. The aim is to get all students to an acceptable level of proficiency in reading and translation, and this is reflected in the assessment of this module by two translation exercises. Time and students' linguistic expertise permitting, some literary contextualisation of the texts studied and translated may also be included. An electronic component (module website, databases, internet tools) will assist students in their acquisition of the necessary knowledge of Old English grammar, vocabulary and syntax. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Mediaeval English Postgraduate Programme<br>Optional for students of any other MLitt Postgraduate Programmes |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr C Rauer  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Rauer and Dr C S Jones   |               |                  |            |



| EN5115 Women, Writing and Gender 1: Renaissance to Romanticism   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>The module seeks to introduce students to a range of debates concerning women, writing and gender through history. The set texts embrace a variety of generic forms, and reflect upon such questions as the 'problem' of woman's voice. Central to many of the works are such concerns as the role of woman in marriage and civic society, the importance of education, and the tension between domestic ideology and female desire. Central to these works is a concern with constructions of femininity and masculinity and in conjunction with EN5112, the module will also examine current critical debates surrounding the cultural configuration of gender.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof S C Sellers and Dr C M Alt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5116 Women, Writing and Gender 2: Victorian to Contemporary  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module continues the chronological survey of debates surrounding women, writing and gender begun by EN5115. The module examines continuity and change in constructions of gender across the period 1800 to the present. Students will be introduced to key critical readings of nineteenth-century women's writing before moving on to consider the emergence of the 'new woman' at the fin de siècle. In the twentieth century the module will consider the work of modernist writers alongside 'middlebrow' and popular fictions. Finally students will examine a range of contemporary writers whose rewriting of history and myth engages with current debates in gender theory.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Pre-requisite(s):</b>   | EN5115  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

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| EN5301 The Continental Renaissance  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>English literature did not develop in isolation, but in response to continental writing. This module will investigate the relationship between the literature of the English Renaissance and the European vernaculars of the period. It will examine continental texts, their early modern English translations, and English work influenced by them. Possible topics for discussion include: Petrarch's sonnets and their English imitators and adaptors; Ariosto's Orlando Furioso; the political writing of Machiavelli; and Castiglione's Libro del Cortegiano and its influence. All texts will be taught in English.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5303 Renaissance Popular Culture   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module aims to build upon the themes explored in EN5304, 'Learned Culture'. Here, the emphasis is less upon rhetoric and classroom practice in the sixteenth century, and more upon Renaissance literature's engagement with a wider field of influences and practice, explored as aspects of 'the popular' in its widest sense. Themes for discussion may include: the place of the stage; popular festivity and literary form; ballads and print; jests and alehouses; the impact of the Reformation. Texts to be discussed may include: Shakespeare's The Winter's Tale; law and popular culture; the poetry of Robert Herrick.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme.<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | TBC   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5304 Learned Culture: Rhetoric, Politics and Identity  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| This module investigates the learned culture of Renaissance England, with a particular focus on the teaching of rhetoric in the grammar school classroom and its relevance to the literary production of the period. Topics covered may include: figures of speech; rhetoric and gender; the controversial plot; and the politics of Renaissance humanism. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A L Davis   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5401 Special Topic in English Studies 1   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| This module operates as a directed reading programme which allows students to explore topics in greater depth than is possible in core modules. Special Topics are offered by selected staff across all MLitt programmes on a rotating basis. Students who hope to go on to doctoral work may wish to use the Special Topic to conduct a pilot study in their proposed area of doctoral studies. Teaching/supervision is normally via 6 tutorials which may be individual or arranged in groups, depending on numbers. Some special topics may make use of relevant individual seminars on extant modules in place of one or more tutorials. Syllabus and reading will be finalised in consultation with the member(s) of staff.. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for students of any MLitt Postgraduate Programmes    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Normally 6 tutorials over the semester |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Director of the relevant MLitt programme                      |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                             |               |                  |   |

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| EN5402 Special Topic in English Studies 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| <p>This module operates as a directed reading programme which allows students to explore topics in greater depth than is possible in core modules. Special Topics are offered by selected staff across all MLitt programmes on a rotating basis. Students who hope to go on to doctoral work may wish to use the Special Topic to conduct a pilot study in their proposed area of doctoral studies. Teaching/supervision is normally via 6 tutorials which may be individual or arranged in groups, depending on numbers. Some special topics may make use of relevant individual seminars on extant modules in place of one or more tutorials. Syllabus and reading will be finalised in consultation with the member(s) of staff.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for students of any MLitt Postgraduate Programmes    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Normally 6 tutorials over the semester |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Director of the relevant MLitt. programme                     |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                             |               |                  |   |

## Masters in Shakespeare and Renaissance Literary Culture

### *Taught Element:*

20 credits: EN5100

Minimum of 60 credits from: EN5301, EN5302, EN5303, EN5304;

Maximum of 40 credits from: EN5401, EN5402, and other approved 5000-level modules within and outwith the School of English (a maximum of 20 credits may be taken outwith the School)

### **MLitt:**

120 credits as for the Taught Element, plus EN5099

### **MPhil:**

120 credits as for the Taught Element, plus a thesis of not more than 40,000 words

This degree is designed to develop critical skills through the investigation of Shakespeare's works in different cultural contexts.

### Compulsory modules:

| EN5100 Literary Research: Skills and Resources   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| This module is compulsory for all School of English MLitt programmes, except Creative Writing. It aims to initiate students in the understanding and use of the essential skills and resources of research in English Studies. It provides preparation for the MLitt dissertation. Elements include Use of Library Resources (Printed, Electronic and Remote); History of Book Production and the Institutions of Publishing; Scholarly Editing; Professional Proofreading and Copy-Editing, and Getting your Work Published. This general module leads on to the more specialist compulsory modules of each individual MLitt. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for all MLitt Postgraduate Programmes within the School, except Creative Writing |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar or workshop  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M C Augustine  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Available only to School of English postgraduate students           |               |                  |            |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                        |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted on or by 19 <sup>th</sup> August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all MLitt Postgraduate Programmes within the School. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | Individual supervision  |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Director of Postgraduate Studies                                    |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                                   |               |                  |            |

## English - Shakespeare and Renaissance MLitt & MPhil - 2015/6 - November 015

| EN5301 The Continental Renaissance  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>English literature did not develop in isolation, but in response to continental writing. This module will investigate the relationship between the literature of the English Renaissance and the European vernaculars of the period. It will examine continental texts, their early modern English translations, and English work influenced by them. Possible topics for discussion include: Petrarch's sonnets and their English imitators and adaptors; Ariosto's Orlando Furioso; the political writing of Machiavelli; and Castiglione's Libro del Cortegiano and its influence. All texts will be taught in English.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5303 Renaissance Popular Culture   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module aims to build upon the themes explored in EN5304, 'Learned Culture'. Here, the emphasis is less upon rhetoric and classroom practice in the sixteenth century, and more upon Renaissance literature's engagement with a wider field of influences and practice, explored as aspects of 'the popular' in its widest sense. Themes for discussion may include: the place of the stage; popular festivity and literary form; ballads and print; jests and alehouses; the impact of the Reformation. Texts to be discussed may include: Shakespeare's The Winter's Tale; law and popular culture; the poetry of Robert Herrick.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme.<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | TBC   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5304 Learned Culture: Rhetoric, Politics and Identity  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| This module investigates the learned culture of Renaissance England, with a particular focus on the teaching of rhetoric in the grammar school classroom and its relevance to the literary production of the period. Topics covered may include: figures of speech; rhetoric and gender; the controversial plot; and the politics of Renaissance humanism. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A L Davis   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

### Optional modules:

| EN5015 Reading the Mediaeval Text  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module is designed to provide or enhance some of the specific skills and areas of knowledge necessary for undertaking research in mediaeval literature. Students will study Paleography and Codicology with specialists from the Special Collections department of the University Library. This will be followed by study of editorial theory and practice, and the traditional periodisation of mediaeval English literature. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Mediaeval English Postgraduate Programme<br>Optional for students of any other MLitt Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M R Purdie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

## English - Shakespeare and Renaissance MLitt & MPhil - 2015/6 - November 015

| EN5017 Old English   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |            |
| <p>A grounding in Old English grammar and translation from Old English will be acquired with the help of grammar exercises and translation practice on original Old English texts. It is recognised that students may join this module with widely varying levels of experience of Old English, from none to fairly extensive. The aim is to get all students to an acceptable level of proficiency in reading and translation, and this is reflected in the assessment of this module by two translation exercises. Time and students' linguistic expertise permitting, some literary contextualisation of the texts studied and translated may also be included. An electronic component (module website, databases, internet tools) will assist students in their acquisition of the necessary knowledge of Old English grammar, vocabulary and syntax.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Mediaeval English Postgraduate Programme<br>Optional for students of any other MLitt Postgraduate Programmes |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr C Rauer  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Rauer and Dr C S Jones   |               |                  |            |

| EN5018 Middle English Literature in Context   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| <p>This module teaches culturally central Middle English and Scottish texts from the later Middle Ages within their wider cultural context.. Fortnightly seminars examine a historical and generic variety of major literary texts produced from 1200 to 1500. Syllabus texts range from the early Worcester Fragments, studied in their manuscript context, to Scots writers (and St Andrews graduates!) such as Gavin Douglas, whose work stretches into the early sixteenth century. Examples of key medieval genres such as saints' lives and romance are compared to their sources, counterparts or influences in other languages or earlier forms of English.</p> |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Mediaeval English Postgraduate Programme<br>Optional for students of any other MLitt Postgraduate Programmes in the School of English or the MLitt in Mediaeval Studies Postgraduate Programme |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Normally 1 seminar per fortnight.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr C S Jones  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |            |



| EN5112 Theories and Contexts   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |            |
| The module provides an introduction to key debates in contemporary feminist and gender theory, alongside an overview of the historical and cultural context within which these theories have developed. The emphasis will be upon the course as a point of departure, and the seminars will be accompanied by an extensive reading list through which the students will be encouraged to explore those areas of enquiry that most interest them. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Women, Writing and Gender Postgraduate Programme.<br>Optional for students of any other MLitt Postgraduate Programmes |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Normally 1 seminar per fortnight  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Prof S C Sellers and Dr C M Alt  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |            |

| EN5115 Women, Writing and Gender 1: Renaissance to Romanticism  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| The module seeks to introduce students to a range of debates concerning women, writing and gender through history. The set texts embrace a variety of generic forms, and reflect upon such questions as the 'problem' of woman's voice. Central to many of the works are such concerns as the role of woman in marriage and civic society, the importance of education, and the tension between domestic ideology and female desire. Central to these works is a concern with constructions of femininity and masculinity and in conjunction with EN5112, the module will also examine current critical debates surrounding the cultural configuration of gender. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof S C Sellers and Dr C M Alt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |   |

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| EN5116 Women, Writing and Gender 2: Victorian to Contemporary  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module continues the chronological survey of debates surrounding women, writing and gender begun by EN5115. The module examines continuity and change in constructions of gender across the period 1800 to the present. Students will be introduced to key critical readings of nineteenth-century women's writing before moving on to consider the emergence of the 'new woman' at the fin de siècle. In the twentieth century the module will consider the work of modernist writers alongside 'middlebrow' and popular fictions. Finally students will examine a range of contemporary writers whose rewriting of history and myth engages with current debates in gender theory.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Pre-requisite(s):</b>   | EN5115  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5401 Special Topic in English Studies 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module operates as a directed reading programme which allows students to explore topics in greater depth than is possible in core modules. Special Topics are offered by selected staff across all MLitt programmes on a rotating basis. Students who hope to go on to doctoral work may wish to use the Special Topic to conduct a pilot study in their proposed area of doctoral studies. Teaching/supervision is normally via 6 tutorials which may be individual or arranged in groups, depending on numbers. Some special topics may make use of relevant individual seminars on extant modules in place of one or more tutorials. Syllabus and reading will be finalised in consultation with the member(s) of staff..</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for students of any MLitt Postgraduate Programmes    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Normally 6 tutorials over the semester |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Director of the relevant MLitt programme                      |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Individually allocated supervisor                             |               |                  |   |

| EN5402 Special Topic in English Studies 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| <p>This module operates as a directed reading programme which allows students to explore topics in greater depth than is possible in core modules. Special Topics are offered by selected staff across all MLitt programmes on a rotating basis. Students who hope to go on to doctoral work may wish to use the Special Topic to conduct a pilot study in their proposed area of doctoral studies. Teaching/supervision is normally via 6 tutorials which may be individual or arranged in groups, depending on numbers. Some special topics may make use of relevant individual seminars on extant modules in place of one or more tutorials. Syllabus and reading will be finalised in consultation with the member(s) of staff.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for students of any MLitt Postgraduate Programmes    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Normally 6 tutorials over the semester |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Director of the relevant MLitt. programme                     |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                             |               |                  |   |

| EN5501 Contextualising the Modern   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>Modernism, in its narrowest sense, refers to the radical literary experiments that occurred in English poetry and prose in the aftermath of the First World War by writers such as T.S. Eliot, James Joyce and Virginia Woolf. This module will explore those experiments in the context of the wider movements in culture and society that informed literary modernism in the first decades of the twentieth century.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>  | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

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| EN5502 Reading the Modern  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>Responding to what Pericles Lewis has termed the 'crisis of representation' in the opening decades of the twentieth century, this module explores attempts by writers to find new literary subjects and forms. In tandem with module EN5501, which considers the impact of political, social, scientific, technological and cultural revolution on literary traditions and techniques, this module explores the pursuit of a number of influential British, American and French modernists to develop modes of representation compatible with a newly urban, industrialised, mass-oriented age.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>   | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5511 Theorising the Contemporary   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>The second half of the twentieth century and the beginning of the twenty-first century witnessed an explosion of theories about literature and culture in an attempt to understand the complexities of a historical period characterised by political, economic and social upheaval and rapid advancements in science and technology. This module will introduce students to key literary and cultural theories within the contemporary period via the close study of selected theoretical texts. Theories covered may include Marxism, postmodernism, deconstruction, poststructuralism, postcolonialism, queer theory, ecocriticism and contemporary poetics.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5512 Contemporary Literature and Culture  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>In tandem with the theoretical and philosophical perspectives studied on EN5511, this module introduces students to a range of late twentieth and early twenty-first century writing. Focalised through both national and international perspectives, this module provides the opportunity to reflect on the proliferation of diverse literatures and other forms of cultural production in the contemporary world. The course is designed to expose students to a range of contemporary authors, poets and playwrights, moving between a detailed focus on highlighted key works and a wider a perspective on individual writer's oeuvres. Topics and themes may include: ecocriticism, postmodernism, terrorism, genre, magical realism, experimental writing, sexualities, globalisation and postcolonialism.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

## Masters in Women, Writing and Gender

### *Taught Element:*

20 credits: EN5100

80 credits: EN5112, EN5115 and EN5116

20 credits: EN5401 or EN5402 or another approved 5000-level module, within or outwith the School of English

### **MLitt:**

120 credits as for the Taught Element, plus EN5099

### **MPhil:**

120 credits as for the Taught Element, plus a thesis of not more than 40,000 words

This degree will introduce students to key issues in the discussion of gender, through the detailed exploration of theoretical, critical and creative writing from the Renaissance to the contemporary period.

### Compulsory modules:

| EN5100 Literary Research: Skills and Resources   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| This module is compulsory for all School of English MLitt programmes, except Creative Writing. It aims to initiate students in the understanding and use of the essential skills and resources of research in English Studies. It provides preparation for the MLitt dissertation. Elements include Use of Library Resources (Printed, Electronic and Remote); History of Book Production and the Institutions of Publishing; Scholarly Editing; Professional Proofreading and Copy-Editing, and Getting your Work Published. This general module leads on to the more specialist compulsory modules of each individual MLitt. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for all MLitt Postgraduate Programmes within the School, except Creative Writing |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar or workshop  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M C Augustine  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5112 Theories and Contexts   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |            |
| The module provides an introduction to key debates in contemporary feminist and gender theory, alongside an overview of the historical and cultural context within which these theories have developed. The emphasis will be upon the course as a point of departure, and the seminars will be accompanied by an extensive reading list through which the students will be encouraged to explore those areas of enquiry that most interest them. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Women, Writing and Gender Postgraduate Programme.<br>Optional for students of any other MLitt Postgraduate Programmes |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Normally 1 seminar per fortnight  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Prof S C Sellers and Dr C M Alt  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |            |

## English - Women, Writing and Gender MLitt & MPhil - 2015/6 - November 2015

| EN5115 Women, Writing and Gender 1: Renaissance to Romanticism   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>The module seeks to introduce students to a range of debates concerning women, writing and gender through history. The set texts embrace a variety of generic forms, and reflect upon such questions as the 'problem' of woman's voice. Central to many of the works are such concerns as the role of woman in marriage and civic society, the importance of education, and the tension between domestic ideology and female desire. Central to these works is a concern with constructions of femininity and masculinity and in conjunction with EN5112, the module will also examine current critical debates surrounding the cultural configuration of gender.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof S C Sellers and Dr C M Alt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5116 Women, Writing and Gender 2: Victorian to Contemporary  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module continues the chronological survey of debates surrounding women, writing and gender begun by EN5115. The module examines continuity and change in constructions of gender across the period 1800 to the present. Students will be introduced to key critical readings of nineteenth-century women's writing before moving on to consider the emergence of the 'new woman' at the fin de siècle. In the twentieth century the module will consider the work of modernist writers alongside 'middlebrow' and popular fictions. Finally students will examine a range of contemporary writers whose rewriting of history and myth engages with current debates in gender theory.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Pre-requisite(s):</b>   | EN5115  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Available only to School of English postgraduate students           |               |                  |            |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                        |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted on or by 19 <sup>th</sup> August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all MLitt Postgraduate Programmes within the School. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | Individual supervision  |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Director of Postgraduate Studies                                    |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                                   |               |                  |            |

### Optional modules - choose 1:

| EN5015 Reading the Mediaeval Text  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module is designed to provide or enhance some of the specific skills and areas of knowledge necessary for undertaking research in mediaeval literature. Students will study Paleography and Codicology with specialists from the Special Collections department of the University Library. This will be followed by study of editorial theory and practice, and the traditional periodisation of mediaeval English literature. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Mediaeval English Postgraduate Programme<br>Optional for students of any other MLitt Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M R Purdie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |



## English - Women, Writing and Gender MLitt & MPhil - 2015/6 - November 2015

| EN5017 Old English   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |            |
| <p>A grounding in Old English grammar and translation from Old English will be acquired with the help of grammar exercises and translation practice on original Old English texts. It is recognised that students may join this module with widely varying levels of experience of Old English, from none to fairly extensive. The aim is to get all students to an acceptable level of proficiency in reading and translation, and this is reflected in the assessment of this module by two translation exercises. Time and students' linguistic expertise permitting, some literary contextualisation of the texts studied and translated may also be included. An electronic component (module website, databases, internet tools) will assist students in their acquisition of the necessary knowledge of Old English grammar, vocabulary and syntax.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Mediaeval English Postgraduate Programme<br>Optional for students of any other MLitt Postgraduate Programmes |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr C Rauer  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Rauer and Dr C S Jones   |               |                  |            |

| EN5301 The Continental Renaissance  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>English literature did not develop in isolation, but in response to continental writing. This module will investigate the relationship between the literature of the English Renaissance and the European vernaculars of the period. It will examine continental texts, their early modern English translations, and English work influenced by them. Possible topics for discussion include: Petrarch's sonnets and their English imitators and adaptors; Ariosto's Orlando Furioso; the political writing of Machiavelli; and Castiglione's Libro del Cortegiano and its influence. All texts will be taught in English.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5303 Renaissance Popular Culture  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| <p>This module aims to build upon the themes explored in EN5304, 'Learned Culture'. Here, the emphasis is less upon rhetoric and classroom practice in the sixteenth century, and more upon Renaissance literature's engagement with a wider field of influences and practice, explored as aspects of 'the popular' in its widest sense. Themes for discussion may include: the place of the stage; popular festivity and literary form; ballads and print; jests and alehouses; the impact of the Reformation. Texts to be discussed may include: Shakespeare's <i>The Winter's Tale</i>; law and popular culture; the poetry of Robert Herrick.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme.<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |   |

| EN5304 Learned Culture: Rhetoric, Politics and Identity   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>This module investigates the learned culture of Renaissance England, with a particular focus on the teaching of rhetoric in the grammar school classroom and its relevance to the literary production of the period. Topics covered may include: figures of speech; rhetoric and gender; the controversial plot; and the politics of Renaissance humanism.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A L Davis   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

## English - Women, Writing and Gender MLitt & MPhil - 2015/6 - November 2015

| EN5401 Special Topic in English Studies 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module operates as a directed reading programme which allows students to explore topics in greater depth than is possible in core modules. Special Topics are offered by selected staff across all MLitt programmes on a rotating basis. Students who hope to go on to doctoral work may wish to use the Special Topic to conduct a pilot study in their proposed area of doctoral studies. Teaching/supervision is normally via 6 tutorials which may be individual or arranged in groups, depending on numbers. Some special topics may make use of relevant individual seminars on extant modules in place of one or more tutorials. Syllabus and reading will be finalised in consultation with the member(s) of staff..</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for students of any MLitt Postgraduate Programmes    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Normally 6 tutorials over the semester |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Director of the relevant MLitt programme                      |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Individually allocated supervisor                             |               |                  |   |

| EN5402 Special Topic in English Studies 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| <p>This module operates as a directed reading programme which allows students to explore topics in greater depth than is possible in core modules. Special Topics are offered by selected staff across all MLitt programmes on a rotating basis. Students who hope to go on to doctoral work may wish to use the Special Topic to conduct a pilot study in their proposed area of doctoral studies. Teaching/supervision is normally via 6 tutorials which may be individual or arranged in groups, depending on numbers. Some special topics may make use of relevant individual seminars on extant modules in place of one or more tutorials. Syllabus and reading will be finalised in consultation with the member(s) of staff.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for students of any MLitt Postgraduate Programmes    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Normally 6 tutorials over the semester |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Director of the relevant MLitt. programme                     |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Individually allocated supervisor                             |               |                  |   |

| EN5501 Contextualising the Modern   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>Modernism, in its narrowest sense, refers to the radical literary experiments that occurred in English poetry and prose in the aftermath of the First World War by writers such as T.S. Eliot, James Joyce and Virginia Woolf. This module will explore those experiments in the context of the wider movements in culture and society that informed literary modernism in the first decades of the twentieth century.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>  | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5502 Reading the Modern  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>Responding to what Pericles Lewis has termed the 'crisis of representation' in the opening decades of the twentieth century, this module explores attempts by writers to find new literary subjects and forms. In tandem with module EN5501, which considers the impact of political, social, scientific, technological and cultural revolution on literary traditions and techniques, this module explores the pursuit of a number of influential British, American and French modernists to develop modes of representation compatible with a newly urban, industrialised, mass-oriented age.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>   | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5511 Theorising the Contemporary   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>The second half of the twentieth century and the beginning of the twenty-first century witnessed an explosion of theories about literature and culture in an attempt to understand the complexities of a historical period characterised by political, economic and social upheaval and rapid advancements in science and technology. This module will introduce students to key literary and cultural theories within the contemporary period via the close study of selected theoretical texts. Theories covered may include Marxism, postmodernism, deconstruction, poststructuralism, postcolonialism, queer theory, ecocriticism and contemporary poetics.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5512 Contemporary Literature and Culture   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>In tandem with the theoretical and philosophical perspectives studied on EN5511, this module introduces students to a range of late twentieth and early twenty-first century writing. Focussed through both national and international perspectives, this module provides the opportunity to reflect on the proliferation of diverse literatures and other forms of cultural production in the contemporary world. The course is designed to expose students to a range of contemporary authors, poets and playwrights, moving between a detailed focus on highlighted key works and a wider a perspective on individual writer's oeuvres. Topics and themes may include: ecocriticism, postmodernism, terrorism, genre, magical realism, experimental writing, sexualities, globalisation and postcolonialism.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

## Masters in Film Studies

**Taught Element:**

60 credits: FM5001

60 credits: FM5101 - FM5250 except that 30 of these credits may be substituted by credits from FM4100 - FM4399 with the approval of the Director of Postgraduate Studies.

**MLitt:**

120 credits as for Taught Element plus FM5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules

| FM5001 Theory and Practice of Research in Film Studies  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 12.00 noon - 2.00 pm Mon (Screening 2.00 pm - 4.30 pm Mon)          |               |                  |            |
| <p>This module seeks to provide the kind of sophisticated theoretical and research skills training now regarded as indispensable for all postgraduates. It has both theoretical and methodological orientation and aims at teaching the students to correlate adequately conceptual frameworks and research designs. Its aim are to (a) debate and enrich our common concepts of reading and analyzing cinematic texts and contexts, by providing a range of different perspectives on film theory and methodology of criticism and various approaches to cinematic research, and (b) offer high-quality training related to methodology which stresses various aspects of conceiving, pursuing, organising, and successfully completing research projects in film studies.</p> |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Film Studies Postgraduate Programme.                 |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar plus film screening.          |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr E Girelli  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof R Burgoyne, Dr E Girelli, Dr T Rice, Dr D Hanlon, Dr L Torchin |               |                  |            |

## Film Studies - MLitt & MPhil - 2015/6 - November 2015

| FM5099 Dissertation for MLitt Film Studies Programme  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.              |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Film Studies MLitt Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.            |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                          |               |                  |            |
| <b>Module Co-ordinator:</b>   | Various Staff   |               |                  |            |

## Optional modules

| FM5103 Film Technologies and Aesthetics   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 12.00 pm - 2.00 pm Tue (Screening 2.30 pm - 4.30 pm Tue)    |               |                  |   |
| This module surveys the history of various cinema technologies. Particular attention will be given to the ways in which the emergence of new technologies - such as sound, colour, cameras and camera mounts, varying screen dimensions, and lighting systems - affect aesthetic issues in global cinemas. By taking a global perspective, the module aims to engage these issues in ways that address the cultural and economic conditions that affect and are affected by the adoption of new technologies. The specific technologies addressed in the module may vary over semesters, and in some semesters the focus may be on a single film technology and in others it may take a comparative approach. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Film Studies Postgraduate Taught Programme     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar, plus film screening. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Cowan  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Cowan  |               |                  |   |

| FM4108 Digital Cinema   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am - 12.00 noon Tue (Screenings: 4.30 pm - 7.00 pm Mon) |               |                  |   |
| <p>Almost everyone agrees that digital technologies are transforming the institution of cinema today, yet there is little agreement on how exactly to evaluate or even characterise that transformation. Is cinema "dying" or has cinema never been more alive? Has the digital spectator been emancipated, or are we more controlled than ever? And what's really "new" about new media anyway? This module will foreground these questions and others as we explore the impact of digital media on the production, distribution, consumption and collecting of moving images, as well as the recent transformations in how we think about cinema, its history and possible futures.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Film Studies Postgraduate Programme              |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar plus screening.         |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Cowan  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Cowan  |               |                  |   |

| FM4109 Film and the Archive   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Tue (screening 5.00 pm - 7.30 pm Thu) |               |                  |   |
| <p>Film and the Archive will provide students with both a theoretical framework for archival research and practical experience in engaging with archival materials. In focusing this module on the local context of cinema in St Andrews, students will have the opportunity to develop their own research projects in one of five topic areas (exhibition, production, cinema culture, audiences, and star culture). Through these local studies, students will develop a broader understanding of film history and culture, learning to correlate their local research to broader developments in film history. Students will develop employable research skills that are useful beyond the specifics of the course. For example, they will have the opportunity to write, present and publish to both academic and general audiences, and will gain a thorough grounding in methodologies relevant for the archival study of cinema.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Film Studies Postgraduate Programme        |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar plus screening.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%                                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T Rice   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr T Rice   |               |                  |   |



## Film Studies - MLitt & MPhil - 2015/6 - November 2015

| FM4115 Sensory Cinema   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Academic year:</b>   | 2015/6  |               |                  |   |
| <b>Planned timetable:</b>   | 10.00 am - 12.00 noon Mon (Screening 4.30 pm - 7.00 pm Tue)           |               |                  |   |
| <p>This module considers the sensory qualities of cinema, a subject which engages variously with the film-as-object, film form and the spectator as active participant. The first half of the module draws on the main philosophical strands used by film scholars to conceptualise the affect of cinema, and then explores the ways film theory and criticism have sought to account for the sensuous or material nature of film. With these perspectives in mind, the second half considers the materialities of film form in more detail. The module explores the topic of filmic affect through a range of case studies and will draw on a diverse mix of references, including interviews with filmmaking personnel.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Film Studies Postgraduate Taught programme               |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar plus screening (up to 3 hours). |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L F Donaldson  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr L F Donaldson  |               |                  |   |

| FM4116 Stars   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Academic year:</b>  | 2015/6  |               |                  |   |
| <b>Planned timetable:</b>  | 10.00 am - 12.00 noon Tue (Screening 4.30 pm - 7.00 pm Mon)           |               |                  |   |
| <p>This module approaches stardom as one of the most exciting, complex, and crucial components of the filmic experience, exploring its aesthetic, cultural, ideological, and industrial sides. Students will be introduced to key theoretical frameworks in Star Studies, and to a representative range of stars. Topics may include the beginning of the star system and the emergence of film fandom, the conflictive meanings of star images, audience desire and star cults, the relation of stars to social representations and politics, and to gender and sexuality. Stars covered may include Rudolph Valentino, Leslie Cheung, Sophia Loren, Will Smith, Greta Garbo, Amitabh Bachchan, and Dirk Bogarde. Students will have the opportunity to research and write on a star of their choice.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Film Studies Postgraduate Taught programme               |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar plus screening (up to 4 hours). |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Girelli  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Girelli  |               |                  |   |

| FM4303 Documentary Cinema   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon - 2.00 pm Tue (Screening 7.30 pm - 10.00 pm Mon) |               |                  |   |
| <p>This module surveys the history of documentary film (technological, stylistic, etc.), while taking up the theoretical debates around cinematic claims to truth and representations of reality. Students will examine how documentary differs from other kinds of filmmaking, how documentaries make 'truth claims', and how these claims influence the ways in which these films are received and circulated. Beginning with the actualities of the Lumiere Brothers, students will be exposed to multiple genres (e.g. ethnographic, civic, cinema verite, experimental, self-reflexive) and filmmakers (e.g. John Grierson, Dziga Vertov, Jean Rouch, Errol Morris) while addressing the variety of arenas (e.g. scientific, civic, commercial) in which documentary has appeared.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Film Studies Postgraduate Programme            |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar plus screening.       |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L Torchin  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr L Torchin  |               |                  |   |

## Department of Geography and Sustainable Development

### Taught Programmes

*Click on title to jump to detailed pdf of that programme*

#### **Postgraduate Certificate:**

*(this is also the Taught element of the MLitt and MPhil programme):*

**Human Geography** ([link](#))

**Sustainable Development** ([link](#))

#### **Postgraduate Diploma:**

*(this is also the Taught element of the MLitt and MPhil programme):*

**Human Geography** ([link](#))

**Sustainable Development** ([link](#))

**Sustainable Energy** ([link](#))

#### **MSc:**

**Sustainable Energy** ([link](#))

#### **MRes:**

**Human Geography** ([link](#))

**Sustainable Development** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Research in Human Geography

### Programme Requirements

#### Postgraduate Certificate:

60 credits: From GG5000, GG5001, GG5002, GG5003, SS5101, SS5102, SS5103 and SS5104.

Permission may occasionally also be given to take some of these credits by 'dipping down' to 3000 or 4000 level, or by 'dipping across' to the SD5000 level programmes.

#### Postgraduate Diploma:

120 credits: From the same selection as Postgraduate Certificate.

#### MRes:

##### *Taught Element:*

120 credits: as for the Taught Element, plus a dissertation (GG5099) of not more than 15,000 words (60 credits)

### Compulsory Modules - Semester 1:

| GG5000 Conceptualising Geography   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| Special Topic in Human Geography is a compulsory core module for the MRes in Human Geography. It is library-based and allows students to specialise in a research area that most interests them. After an introductory lecture, students discuss and agree an appropriate topic with a member of staff who will supervise their work. They then identify a question, theme or review framework to guide their research and, where appropriate, attend lectures for an honours option course. The module is assessed by two pieces of work: (a) a lecture presentation aimed at honours undergraduates; (b) a 3,500-word essay, which can either be a topical essay or a critical review of a body of literature. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Human Geography Postgraduate Taught Programme.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 hour supervision weekly, and 1 introductory lecture and 1 seminar over the semester |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A M Findlay   |               |                  |   |

## Geography & Sustainable Development - Human Geography MRes - 2015/6 - November 2015

| GG5001 Being a Human Geographer 1 - Theory and Practice  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module is designed to help students recognise the distinctive nature of research design in human geography, paying attention to the relations between theory and method. Particular attention is paid to how different geographical contexts - space, environment and place - can be researched. Attention is also devoted to the relation between social theory and research design in human geography. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Human Geography Postgraduate Taught Programme.        |               |                  |   |
| <b>Co-requisite(s):</b>  | SS5101   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar, occasional lectures and fieldwork. |               |                  |   |
| <b>Assessment pattern:</b>   | Practical Examination = 25%, Coursework = 75%                        |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A M Findlay   |               |                  |   |

| SS5101 Being a Social Scientist  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 - 5.00 pm Fri   |               |                  |   |
| Through a series of interactive seminars this two-part module explores the fundamental skills required by all social scientists. In part one, the module will focus on how to design and produce a research dissertation. Assessment will be in the form of a critical essay that analyses the research design of papers from your disciplinary field. In part two, issues of professional development (e.g. ethics, careers, grant writing) will be addressed. Assessment will be in the form of a class test in which you will review and comment on two research proposals. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Human Geography<br>Compulsory for MRes and MSc in Sustainable Development and MSc in Sustainable Energy<br>Compulsory for various other MRes Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr T Stojanovic  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S McGarrol and Dr M Kesby   |               |                  |   |

| SS5104 Quantitative Research in Social Science  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 1.00 - 5.00 pm Mon  |               |                  |   |
| <p>This module provides a user-friendly introduction to the fundamental concepts of quantitative analysis. It will cover underlying principles, terminology, research design, sampling strategies, uncertainty and missing data, computerised data management and analysis and univariate and multivariate approaches to data analysis. The assessment will be in the form of weekly practical tasks completed in class and/or independently.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Psychology (Conversion).<br>Compulsory for MRes in Human Geography.<br>Compulsory for various other MRes Programmes.<br>Optional for the MRes in Psychology. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour combined lecture and practical session.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T Stojanovic   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | TBC   |               |                  |   |

**Compulsory Modules - Semester 2:**

| GG5002 Being a Human Geographer 2 - Research Design   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This is an independent study module linked to the research interests of the student. After an introductory lecture, students discuss possible topics with a member of staff, who will agree the topic and supervise the development of a research proposal. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Human Geography Postgraduate Taught Programme.<br>Optional for Sustainable Development Postgraduate Taught Programme. |               |                  |   |
| <b>Pre-requisite(s):</b>  | SS5101, GG5001   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 tutorial and occasional lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof A M Findlay   |               |                  |   |

| GG5003 Advanced Geographical Research Methods  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| Advanced Geographical Research Methods is a compulsory core module for the MRes in Human Geography. It is largely project-based and allows students to specialise in a research area using a research method or technique that most interests them. After an introductory lecture, students discuss possible research methods/techniques with a member of staff, who in discussion with the student will identify a small project designed to operationalise a piece of research using a particular method or technique. The project supervisor will provide the necessary training and guidance for the student to undertake the project. |  |               |                  |   |
| The module is assessed by two pieces of work: (a) a presentation to staff and other post-graduate students in the human geography internal seminar series; (b) a 3,500 word report, which presents preliminary research findings but mainly focusses on providing a reflective and critical account of the methods and techniques used.  |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Human Geography Postgraduate Taught Programme.<br>Optional for Sustainable Development Postgraduate Taught Programme. |               |                  |   |
| <b>Co-requisite(s):</b>  | SS5103 and SS5104  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 hour supervision weekly and 1 lecture and 1 seminar over the semester.                                      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A M Findlay   |               |                  |   |

| SS5102 Philosophy and Methodology of the Social Sciences   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15                                     | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 - 5.00 pm Wed                     |               |                  |   |
| This seminar based module will introduce you to the basic theoretical approaches in the social sciences, encourage you to make connections between the methodological and epistemological issues involved in conducting social scientific research, and inspire you to reflect critically your own experience. The module will cover modern philosophy's historical evolution, positivism, feminism, critical theory and post-structuralism among other topics. Assessment will involve a one short review and one longer essay. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for various MRes Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                      |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr T Stojanovic                        |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | TBC                                    |               |                  |   |

| SS5103 Qualitative Methods in Social Research  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am - 12.00 Tuesday   |               |                  |   |
| This seminar-based module offers both a theoretical and practical introduction to the collection, analysis and writing of qualitative social science research. Among other things, the module will cover positionality/ethics, archives, participant observation, participatory approaches, semi-structured interviewing and the use of NVIVO/computer aided qualitative data analysis. Assessment will involve a short reflection on field experience and a longer critical essay on a chosen aspect of qualitative research. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Human Geography<br>Compulsory for various other MRes Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr T Stojanovic  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K McKee and various others  |               |                  |   |



**Compulsory Module - Summer:**

| GG5099 Dissertation in Human Geography  |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| Students choose a topic in the field of human geography on which to conduct independent research. Dissertations will be supervised by a member of the teaching staff who will provide advice throughout the research process. Research will be conducted over the summer after the end of the taught modules. The completed dissertation must be no more than 15,000 words. |  |               |                  |        |
| <b>Programme module type:</b>   | Compulsory for MRes in Human Geography   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b><br>Up to 8 hours of guided study per student over semester 2 and the summer (one -one supervision, by arrangement with supervisor). |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Prof A M Findlay   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | TBC  |               |                  |        |

## Masters in Sustainable Development also Postgraduate Certificate and Postgraduate Diploma

### Programme Requirements

#### Postgraduate Certificate:

30 credits: SD5001 or SD5003

30 credits: 5000-level modules chosen in consultation with the Programme Director and any other School involved. Permission may occasionally also be given to take some or all of these credits at 3000 or 4000 level.

#### Postgraduate Diploma: *(this is also the Taught element of the MSc programme):*

75 credits: SD5001, SD5003, SS5101

45 credits: 5000-level modules chosen in consultation with the Programme Director and any other School involved. Permission may occasionally also be given to take some or all of these credits at 3000 or 4000 level.

#### MSc:

120 credits, as for the Postgraduate Diploma (taught element), plus SD5099 (60-credit Dissertation module)

#### MRes:

##### *Taught Element:*

60 credits: SD5001 and SD5003

60 credits from: GG5002, GG5003, SD5023, SS5101 - SS5104. Permission may occasionally also be given to take some or all of these credits at 3000 or 4000 level.

120 credits from the MRes Taught Element plus SD5099 (60-credit Dissertation module)

### Semester 1 modules:

| SD5001 Interrogating Sustainable Development  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm - 4.00 pm Tue, 9.00 am - 10:00 am Wed, 9.00 am -10:00 am Fri  |               |                  |   |
| <p>This module provides an introduction to sustainable development. First, it introduces the history and application of the concept of sustainable development. Second, there is a series of disciplinary-based lectures that describe the nature and functioning of the social, political, economic and physical , and systems that combine to create the world that we can observe around us. Specific material will also be presented that links these various aspects together and explores their interactions.</p> <p>In addition, this module will have a short induction component to it during the pre-sessional week of term which has a three-fold purpose: (i) to introduce students to the shape of the degree program and St Andrews, (ii) allow students to explore their existing skill base and identify what skills require further work and (iii) provide a context (in the form of a field trip) within which to start an investigation of what inter-disciplinarity entails. This will entail two one-day seminars.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Diploma, MSc and MRes Sustainable Development and MSc Sustainable Energy Postgraduate Programmes. |               |                  |   |
| <b>Required for:</b>  | SD5023  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 x 1-hour seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D McCauley   |               |                  |   |

## Geography & Sustainable Development - Sustainable Development PG - 2015/6 - November 2015

| SS5101 Being a Social Scientist   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 - 5.00 pm Fri   |               |                  |   |
| <p>Through a series of interactive seminars this two-part module explores the fundamental skills required by all social scientists. In part one, the module will focus on how to design and produce a research dissertation. Assessment will be in the form of a critical essay that analyses the research design of papers from your disciplinary field. In part two, issues of professional development (e.g. ethics, careers, grant writing) will be addressed. Assessment will be in the form of a class test in which you will review and comment on two research proposals.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MRes in Human Geography<br>Compulsory for MRes and MSc in Sustainable Development and MSc in Sustainable Energy<br>Compulsory for various other MRes Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T Stojanovic  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S McGarrol and Dr M Kesby   |               |                  |   |

| SS5104 Quantitative Research in Social Science  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 1.00 - 5.00 pm Mon  |               |                  |   |
| <p>This module provides a user-friendly introduction to the fundamental concepts of quantitative analysis. It will cover underlying principles, terminology, research design, sampling strategies, uncertainty and missing data, computerised data management and analysis and univariate and multivariate approaches to data analysis. The assessment will be in the form of weekly practical tasks completed in class and/or independently.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Psychology (Conversion).<br>Compulsory for MRes in Human Geography.<br>Compulsory for various other MRes Programmes.<br>Optional for the MRes in Psychology. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour combined lecture and practical session.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T Stojanovic   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | TBC   |               |                  |   |

**Semester 2 modules:**

| <b>SD5003 Master Class in Sustainable Development</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 5.00 pm Tue   |               |                  |   |
| <p>This module has four elements: (i) a series of presentations by academic experts in their chosen field of sustainable development along with structured reflection and further exploration of these various topic areas, (ii) the development and presentation (in groups) of case studies of sustainable development problems and/or exemplars of excellence in sustainable development, and (iii) two field trips to examine examples of sustainable development in practice, (iv) the completion of a master class review essay in a specialised area of sustainable development. This module is designed to provide you with an ability to critically reflect on the potential and limitations of sustainable development.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Diploma, MSc and MRes Sustainable Development and MSc Sustainable Energy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 3-hour seminar weekly plus field trips   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R Streeter   |               |                  |   |

| <b>SD5023 Economics for the Environment</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Thu   |               |                  |   |
| <p>This module introduces students to the contributions that environmental economics can make to helping us understand and manage a wide range of environmental problems. We also study the insights which economics provides on the relationship between economic growth and environmental quality, and the measurement of sustainability. No prior knowledge of economics is presumed, and a course textbook is available which is co-written by one of the course lecturers.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for the Postgraduate Diploma, MSc and MRes Sustainable Development and MSc Sustainable Energy Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | SD5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour seminar weekly plus field trips   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof N Hanley   |               |                  |   |

| GG5002 Being a Human Geographer 2 - Research Design   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This is an independent study module linked to the research interests of the student. After an introductory lecture, students discuss possible topics with a member of staff, who will agree the topic and supervise the development of a research proposal. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Human Geography Postgraduate Taught Programme.<br>Optional for Sustainable Development Postgraduate Taught Programme. |               |                  |   |
| <b>Pre-requisite(s):</b>  | SS5101, GG5001   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 tutorial and occasional lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof A M Findlay   |               |                  |   |

| GG5003 Advanced Geographical Research Methods   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| Advanced Geographical Research Methods is a compulsory core module for the MRes in Human Geography. It is largely project-based and allows students to specialise in a research area using a research method or technique that most interests them. After an introductory lecture, students discuss possible research methods/techniques with a member of staff, who in discussion with the student will identify a small project designed to operationalise a piece of research using a particular method or technique. The project supervisor will provide the necessary training and guidance for the student to undertake the project.<br><br>The module is assessed by two pieces of work: (a) a presentation to staff and other post-graduate students in the human geography internal seminar series; (b) a 3,500 word report, which presents preliminary research findings but mainly focusses on providing a reflective and critical account of the methods and techniques used. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Human Geography Postgraduate Taught Programme.<br>Optional for Sustainable Development Postgraduate Taught Programme. |               |                  |   |
| <b>Co-requisite(s):</b>   | SS5103 and SS5104  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 hour supervision weekly and 1 lecture and 1 seminar over the semester.                                      |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof A M Findlay   |               |                  |   |

| SS5102 Philosophy and Methodology of the Social Sciences   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15                                     | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 - 5.00 pm Wed                     |               |                  |   |
| This seminar based module will introduce you to the basic theoretical approaches in the social sciences, encourage you to make connections between the methodological and epistemological issues involved in conducting social scientific research, and inspire you to reflect critically your own experience. The module will cover modern philosophy's historical evolution, positivism, feminism, critical theory and post-structuralism among other topics. Assessment will involve a one short review and one longer essay. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for various MRes Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                      |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr T Stojanovic                        |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | TBC                                    |               |                  |   |

| SS5103 Qualitative Methods in Social Research  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am - 12.00 Tuesday   |               |                  |   |
| This seminar-based module offers both a theoretical and practical introduction to the collection, analysis and writing of qualitative social science research. Among other things, the module will cover positionality/ethics, archives, participant observation, participatory approaches, semi-structured interviewing and the use of NVIVO/computer aided qualitative data analysis. Assessment will involve a short reflection on field experience and a longer critical essay on a chosen aspect of qualitative research. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Human Geography<br>Compulsory for Sustainable Development and Sustainable Energy Postgraduate Programmes.<br>Compulsory for various other MRes Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr T Stojanovic  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K McKee and various others  |               |                  |   |

**Compulsory module for MSc or MRes - Whole Year:**

| SD5099 Dissertation in Sustainable Development  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 12.00 noon - 1.00 pm Tue                           |               |                  |            |
| <p>This module creates the context within which students are able to investigate a substantive sustainable development topic in considerable depth. It is the capstone module of the Masters degree in sustainable development. The dissertation is an academic evaluation and exploration of a key debate in sustainable development. Its format is an empirically or theoretically driven essay with an upper limit of 15,000 words. The selection of the topic is negotiated between the student and relevant potential supervisors.</p> |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for MRes or MSc Sustainable Development |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 1-hour seminar          |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Davies  |               |                  |            |

## Masters in Sustainable Energy also Postgraduate Diploma

### Programme Requirements

**Postgraduate Diploma:** (*this is also the Taught element of the MSc programmes*):

75 credits: SD5001, SD5003, SS5101

45 credits: 5000-level modules chosen in consultation with the Programme Director and any other School involved. These may be substituted by credits from Russian language modules at a level appropriate to the student's skills/knowledge (non-native speakers of Russian Only). Students may also dip down for 30 credits into honours level if necessary.

### MSc:

120 credits, as for the Postgraduate Diploma (taught element), plus SD5201 (10-credit Review essay) and SD5299 (50-credit Dissertation)

### Compulsory modules - Semester 1:

| SD5001 Interrogating Sustainable Development  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm - 4.00 pm Tue, 9.00 am - 10:00 am Wed, 9.00 am -10:00 am Fri  |               |                  |   |
| <p>This module provides an introduction to sustainable development. First, it introduces the history and application of the concept of sustainable development. Second, there is a series of disciplinary-based lectures that describe the nature and functioning of the social, political, economic and physical , and systems that combine to create the world that we can observe around us. Specific material will also be presented that links these various aspects together and explores their interactions.</p> <p>In addition, this module will have a short induction component to it during the pre-sessional week of term which has a three-fold purpose: (i) to introduce students to the shape of the degree program and St Andrews, (ii) allow students to explore their existing skill base and identify what skills require further work and (iii) provide a context (in the form of a field trip) within which to start an investigation of what inter-disciplinarity entails. This will entail two one-day seminars.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Diploma, MSc and MRes Sustainable Development and MSc Sustainable Energy Postgraduate Programmes. |               |                  |   |
| <b>Required for:</b>  | SD5023  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 x 1-hour seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D McCauley   |               |                  |   |



## Geography & Sustainable Development - Sustainable Energy MSc - 2015/6 - November 2015

| SS5101 Being a Social Scientist   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 - 5.00 pm Fri   |               |                  |   |
| <p>Through a series of interactive seminars this two-part module explores the fundamental skills required by all social scientists. In part one, the module will focus on how to design and produce a research dissertation. Assessment will be in the form of a critical essay that analyses the research design of papers from your disciplinary field. In part two, issues of professional development (e.g. ethics, careers, grant writing) will be addressed. Assessment will be in the form of a class test in which you will review and comment on two research proposals.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MRes in Human Geography<br>Compulsory for MRes and MSc in Sustainable Development and MSc in Sustainable Energy<br>Compulsory for various other MRes Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T Stojanovic  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S McGarrol and Dr M Kesby   |               |                  |   |

### Compulsory modules - Semester 2:

| SD5003 Master Class in Sustainable Development  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 5.00 pm Tue   |               |                  |   |
| <p>This module has four elements: (i) a series of presentations by academic experts in their chosen field of sustainable development along with structured reflection and further exploration of these various topic areas, (ii) the development and presentation (in groups) of case studies of sustainable development problems and/or exemplars of excellence in sustainable development, and (iii) two field trips to examine examples of sustainable development in practice, (iv) the completion of a master class review essay in a specialised area of sustainable development. This module is designed to provide you with an ability to critically reflect on the potential and limitations of sustainable development.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Diploma, MSc and MRes Sustainable Development and MSc Sustainable Energy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 3-hour seminar weekly plus field trips   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R Streeter   |               |                  |   |

**Compulsory Modules for MSc:**

| SD5201 Review Essay in Sustainable Energy   |   |               |                  |                                      |
|---|---|---------------|------------------|--------------------------------------|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | Either single semester or whole year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |                                      |
| This is a compulsory module of the Double Masters programme in Sustainable Energy. The Review Essay is an integral component of the degree which enables students to reflect on the first year before progressing to the second year in Moscow. |   |               |                  |                                      |
| <b>Programme module type:</b>   | Compulsory for the MSc Sustainable Energy Postgraduate Programme. |               |                  |                                      |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> No direct teaching.                        |               |                  |                                      |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |                                      |
| <b>Module Co-ordinator:</b>   | Dr D McCauley   |               |                  |                                      |

| SD5299 Dissertation in Sustainable Energy  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 50  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |            |
| This module creates the context within which students are able to investigate a substantive sustainable development topic in considerable depth. It is the capstone module of the Masters degree in sustainable development. The dissertation is an academic evaluation and exploration of a key debate in sustainable development. Its format is an empirically or theoretically driven essay with an upper limit of 12,000 words. The selection of the topic is negotiated between the student and relevant potential supervisors. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the MSc Sustainable Energy Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 1-hour seminar.                        |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%                                  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr D McCauley   |               |                  |            |

**Optional module:**

| SD5023 Economics for the Environment  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Thu   |               |                  |   |
| <p>This module introduces students to the contributions that environmental economics can make to helping us understand and manage a wide range of environmental problems. We also study the insights which economics provides on the relationship between economic growth and environmental quality, and the measurement of sustainability. No prior knowledge of economics is presumed, and a course textbook is available which is co-written by one of the course lecturers.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for the Postgraduate Diploma, MSc and MRes Sustainable Development and MSc Sustainable Energy Postgraduate Programmes. |               |                  |   |
| <b>Pre-requisite(s):</b>  | SD5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour seminar weekly plus field trips   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof N Hanley   |               |                  |   |

## School of History

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **MLitt & MPhil:**

**The Book. History and Techniques of Analysis** ([link](#))

**Central and East European Studies** (*see section 15*)

**Early Modern History** ([link](#))

**Environmental History** (*see section 15*)

**Intellectual History** (*see section 15*)

**Iranian Studies** ([link](#))

**Legal and Constitutional History** (*not available 2015-2016*)

**Mediaeval History** ([link](#))

**Mediaeval Studies** (*see section 15*)

**Middle Eastern History** ([link](#))

**Modern History** ([link](#))

**Reformation Studies** ([link](#))

**Scottish Historical Studies** ([link](#))

**Transnational, Global and Spatial History** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in The Book. History and Techniques of Analysis

Also Postgraduate Diploma and MPhil

### Programme Requirements

Programme Coordinator: Dr Matthew McLean

**Taught Element:**

40 credits: MO5113

and 80 credits from: MO5030 - MO5039, MO5602, MO5609

or other optional modules offered within the School of History with the approval of the Programme coordinator

**MLitt:**

120 credits as for the Taught Element plus MO5099

**MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| MO5113 Books and their Readers in Early Modern Europe  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| This module aims to provide students with a good understanding of key issues and methods in book history ca.1445-1830. Through the evaluation of primary and secondary sources students will become familiar with the invention, development, spread, and transformation of printing in the period concerned. They will develop a sound knowledge of important aspects of book history, such as the economics of the book trade, the social and religious context of printed books, the development of the illustrated book, the relationship between books and the Enlightenment, and the history of libraries and book collecting. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for The Book: History and Techniques of Analysis Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly 2-hour seminar.                                  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M McLean   |               |                  |            |

## History - The Book - MLitt - 2015/6 - November 2015

| MO5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for The Book, Early Modern History, Intellectual History, Modern History, Reformation Studies, and Transnational History MLitt Postgraduate Programmes<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team taught   |               |                  |            |

### Optional modules:

| MO5030 Early Modern Documents and Sources   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm - 5.00 pm Thu  |                           |                  |   |
| This module provides a wide-ranging introduction to the types of source material which researchers on the early modern period may encounter. In studying this module, you will be trained in critical analysis of genres of both textual and material sources. It offers an introduction to methodological commentaries on the nature of such sources, a range of British, European, and global examples of them, and the chance for you to discuss examples drawn from your own particular areas of specialism. The module also provides a guide to analysing modern editions of documents and assessing their reliability. Its training in the variety of material which early modernists may unexpectedly find themselves working with, whatever their specialism, is an excellent complement to the other skills pathways, and important preparation for the MLitt (and any potential doctoral) dissertation. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |   |
| <b>Co-requisite(s):</b>   | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly 2-hour seminars.  |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Michelson   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| MO5031 Latin for Postgraduate Research   |  |                           |                  |            |
|--|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 9.30 am - 11.00 am Mon and Tue   |                           |                  |            |
| <p>The three tiers of teaching (beginners, intermediate, and translation) provide suitable levels of engagement with Latin for students with earlier or no experience. The beginners' class covers the fundamentals of Latin grammar and syntax; gives practice in translating separate sentences, short Latin passages written specifically for the class; passages of genuine Latin taken from a wide variety of sources including the Vulgate, the Church Fathers, Mediaeval, and later historians, hymns, and popular verses; surveys various types of Latin literature from late antiquity to the eighteenth century, Latin as a spoken language, pronunciation, and the advantages of Latin as a lingua franca; translation techniques. The intermediate class offers revision and consolidation of the above, introducing students to more complex aspects of grammar and syntax. The advanced translation class uses authors of verse and prose, analyses Latin styles, includes translation into Latin as well as from Latin into English, and offers exercises in recognising and correcting mistakes in modern published authors' versions of Latin texts, and in improving other versions and in correctly transcribing and translating manuscript material.</p> |  |                           |                  |            |
| <b>Programme module type:</b>  | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |            |
| <b>Co-requisite(s):</b>  | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 x fortnightly 1.5-hour seminars.  |                           |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |            |
| <b>Module Co-ordinator:</b>  | Dr P Maxwell-Stuart  |                           |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr P Maxwell-Stuart  |                           |                  |            |

| MO5032 Material Bibliography  |  |                           |                  |            |
|---|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Thu  |                           |                  |            |
| <p>Material Bibliography is a year-long training option intended for students enrolled on the Book History, Reformation Studies or Early Modern MLitt programmes. It covers the use of the Book as historical evidence, and practical aspects of cataloguing and Special Collections work. Closely supervised seminars will cover: Basic tools? Databases and how to identify hand pressed books; Reading a title page; Latin for book historians; Printers, publishers and booksellers; Paper and format; Collation formulae and pagination, type description; Fingerprints; Refresher – edition vs. copy; Provenance; Binding and Bindings; Workshop – describing books; Databases and bibliometrics. Semester one focuses on group training, semester two on supervised individual practice.</p> |  |                           |                  |            |
| <b>Programme module type:</b>   | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |            |
| <b>Co-requisite(s):</b>   | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly 2-hour seminars or 2.5-hour practical classes.  |                           |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M McLean  |                           |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |            |

## History - The Book - MLitt - 2015/6 - November 2015

| MO5033 Paleography and Manuscript Studies   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Fri   |                           |                  |   |
| <p>This module provides a wide-ranging introduction to the reading and handling of original source material of all types which researchers of the early modern period may encounter. In studying this module, you will gain the skills you need to read early modern handwriting and gain a sense of the nature of European handwriting in the early modern period. You will learn how to create a transcription (to professional standards). The module also provides experience in handling original source materials. This training in the variety of material which early modernists may find themselves working with, whatever their specialism, is an excellent complement to the other skills pathways, and important preparation for the MLitt (and any potential doctoral) dissertation.</p> |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |   |
| <b>Co-requisite(s):</b>   | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars   |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Connolly  |                           |                  |   |

| MO5602 Directed Reading in Modern History  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | <p>Compulsory for The Book: History and Techniques of Analysis and Intellectual History Postgraduate Programmes.</p> <p>Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and Transnational, Global and Spatial History Postgraduate Programmes.</p> |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Team taught   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   |   |               |                  |        |



| MO5609 Directed Reading in Modern History 2  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and The Book. History and Techniques of Analysis Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Team taught  |               |                  |   |

## Masters in Early Modern History

### Also Postgraduate Diploma and MPhil

Programme Coordinator: Dr Emily Michelson

#### **Taught Element:**

40 credits: MO5000

40 credits: Two of MO5030 - MO5039

40 credits: MO5002 - MO5095, MO5602, MO5609, MO5613, SC5201

#### **MLitt:**

120 credits as for the Taught Element plus MO5099

#### **M.Phil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| MO5000 Themes and Debates in Early Modern History   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| <p>This module introduces students to a variety of key debates in early modern history through studying different scholars' approaches to the period. Considering political, social, and cultural aspects of the era, students will evaluate studies informed by social science techniques and changing historiographical approaches. Encompassing Western Christendom and the emerging 'Atlantic world' from the mid fifteenth to mid eighteenth centuries, the module provides a broad based thorough grounding in the major historiographical and historical controversies of the era. Participants will review questions of agricultural, industrial, scientific, and military change; absolutism, power relationships, and intellectual authority; and issues of identity and identities forged through awareness of gender, race, national, and global relationships and connections.</p> |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Early Modern History Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours per fortnight                |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr E Michelson  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |            |

| MO5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for The Book, Early Modern History, Intellectual History, Modern History, Reformation Studies, and Transnational History MLitt Postgraduate Programmes<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team taught   |               |                  |            |

## Two of:

| MO5030 Early Modern Documents and Sources   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm - 5.00 pm Thu  |                           |                  |   |
| This module provides a wide-ranging introduction to the types of source material which researchers on the early modern period may encounter. In studying this module, you will be trained in critical analysis of genres of both textual and material sources. It offers an introduction to methodological commentaries on the nature of such sources, a range of British, European, and global examples of them, and the chance for you to discuss examples drawn from your own particular areas of specialism. The module also provides a guide to analysing modern editions of documents and assessing their reliability. Its training in the variety of material which early modernists may unexpectedly find themselves working with, whatever their specialism, is an excellent complement to the other skills pathways, and important preparation for the MLitt (and any potential doctoral) dissertation. |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |   |
| <b>Co-requisite(s):</b>   | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly 2-hour seminars.  |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |

| <b>MO5031 Latin for Postgraduate Research</b>  |  |                           |                  |            |
|--|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 9.30 am - 11.00 am Mon and Tue   |                           |                  |            |
| <p>The three tiers of teaching (beginners, intermediate, and translation) provide suitable levels of engagement with Latin for students with earlier or no experience. The beginners' class covers the fundamentals of Latin grammar and syntax; gives practice in translating separate sentences, short Latin passages written specifically for the class; passages of genuine Latin taken from a wide variety of sources including the Vulgate, the Church Fathers, Mediaeval, and later historians, hymns, and popular verses; surveys various types of Latin literature from late antiquity to the eighteenth century, Latin as a spoken language, pronunciation, and the advantages of Latin as a lingua franca; translation techniques. The intermediate class offers revision and consolidation of the above, introducing students to more complex aspects of grammar and syntax. The advanced translation class uses authors of verse and prose, analyses Latin styles, includes translation into Latin as well as from Latin into English, and offers exercises in recognising and correcting mistakes in modern published authors' versions of Latin texts, and in improving other versions and in correctly transcribing and translating manuscript material.</p> |  |                           |                  |            |
| <b>Programme module type:</b>  | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |            |
| <b>Co-requisite(s):</b>  | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 x fortnightly 1.5-hour seminars.  |                           |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |            |
| <b>Module Co-ordinator:</b>  | Dr P Maxwell-Stuart  |                           |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr P Maxwell-Stuart  |                           |                  |            |

| <b>MO5032 Material Bibliography</b>   |  |                           |                  |            |
|---|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Thu  |                           |                  |            |
| <p>Material Bibliography is a year-long training option intended for students enrolled on the Book History, Reformation Studies or Early Modern MLitt programmes. It covers the use of the Book as historical evidence, and practical aspects of cataloguing and Special Collections work. Closely supervised seminars will cover: Basic tools? Databases and how to identify hand pressed books; Reading a title page; Latin for book historians; Printers, publishers and booksellers; Paper and format; Collation formulae and pagination, type description; Fingerprints; Refresher – edition vs. copy; Provenance; Binding and Bindings; Workshop – describing books; Databases and bibliometrics. Semester one focuses on group training, semester two on supervised individual practice.</p> |  |                           |                  |            |
| <b>Programme module type:</b>   | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |            |
| <b>Co-requisite(s):</b>   | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly 2-hour seminars or 2.5-hour practical classes.  |                           |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M McLean  |                           |                  |            |

## History - Early Modern History MLitt & MPhil - 2015/6 - November 2015

| MO5033 Paleography and Manuscript Studies   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Fri   |                           |                  |   |
| <p>This module provides a wide-ranging introduction to the reading and handling of original source material of all types which researchers of the early modern period may encounter. In studying this module, you will gain the skills you need to read early modern handwriting and gain a sense of the nature of European handwriting in the early modern period. You will learn how to create a transcription (to professional standards). The module also provides experience in handling original source materials. This training in the variety of material which early modernists may find themselves working with, whatever their specialism, is an excellent complement to the other skills pathways, and important preparation for the MLitt (and any potential doctoral) dissertation.</p> |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |   |
| <b>Co-requisite(s):</b>   | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars   |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Connolly  |                           |                  |   |

### Optional modules:

| MO5004 War, State and Society in Early Modern Europe and New Worlds   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>This module will explore the transformations in the size, scale and scope of European warfare between the late fifteenth and late eighteenth centuries. Such developments as the proliferation of gunpowder weaponry and the transformation of fortifications, considered by some historians as a "Military Revolution", altered the nature of warfare but also had considerable effects, often detrimental, on the state, society and good order. Moreover, Europeans exported their arts of war to other continents in competition with each other, and their encounters with other peoples in the Mediterranean basin, the Americas and East Asia led to further military adaptation. The module will investigate the military developments of the period on land and to a lesser extent at sea, but also the effects they had on the state and on civilians.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Early Modern History and Reformation Studies Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |        |
| <b>Assessment pattern:</b>  | <b>Coursework = 100%</b>   |               |                  |        |
| <b>Module Co-ordinator:</b>   | Prof G Rowlands  |               |                  |        |

| MO5007 The European Renaissance  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| <p>The Italian Renaissance has been seen as a turning point in European history. Writing in the nineteenth century, Jakob Burckhardt famously defined it as a golden age, marked above all by individualism, a love of ancient classics, amorality and antipathy to Christianity. Northern Europe, in the view of Burckhardt and his successor Johann Huizinga, was, by contrast, a society in decline. This module will compare and contrast the Italian and Northern Renaissances, examining their mediaeval origins and exploring themes such as religion, humanism, court and urban life, in order to test this traditional interpretation. Throughout, we will make extensive use of primary sources, both textual and visual, including works by Petrarch, Thomas à Kempis, Lorenzo Valla, Erasmus, Baldassare Castiglione, Thomas More, Hans Holbein, and Albrecht Dürer.</p> |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History and Reformation Studies Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |        |
| <b>Assessment pattern:</b>   | <b>Coursework = 100%</b>   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr E Michelson   |               |                  |        |

| MO5008 The Creation of an Atlantic World   |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| <p>This module will introduce students to the concept of the Atlantic World, a unit of analysis used by historians to understand the changes wrought in the western hemisphere by the British, French, and Iberian discovery and settlement of the Americas, and by Europe's slave trade with Africa. Through study of the economic, social, intellectual, and legal implications of the establishment of this new field of human interaction between 1500-1800, students will gain an appreciation of the impact of these discoveries on old and new world societies alike. Discussion will also address the benefits and limitations of the idea of an Atlantic World for the study of the early modern era.</p> |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |        |
| <b>Assessment pattern:</b>   | <b>Coursework = 100%</b>   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr E Hart  |               |                  |        |

## History - Early Modern History MLitt & MPhil - 2015/6 - November 2015

| <b>MO5009 Law, Justice and Community: Court Records and British Society (1400 - 1800)</b>  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>More than a century ago the greatest historian of English law, F. W. Maitland, wrote that 'legal documents of the most technical kind, are the best, often the only evidence that we have for economic and social history'. This module acts as an introduction to the single most important source for early-modern British social history: the records of law courts, which played a far more central role in everyday life than they do now. Students will explore the documentation produced by a wide range of British courts and look at their uses for the social historian. The aim is to provide students with a broad awareness and understanding of how particular resources have been and might be used in actual research.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.                    |               |                  |        |
| <b>Assessment pattern:</b>   | <b>Coursework = 100%</b>                                  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Prof R A Houston  |               |                  |        |

| <b>MO5010 Political Thought and Intellectual History</b>   |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module will offer a rich and varied graduate-level introduction to the political theory and intellectual history of the early modern period. There will be an emphasis upon English-speaking examples but always set within the context of broader European developments. Particular themes will be explored through the study of key texts and will include explanations of the relationship between state and society, theories of legitimacy and political obligation, accounts of the origins of government, and emerging interest in specific aspects of governmental activity.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History, Reformation Studies and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |        |
| <b>Assessment pattern:</b>   | <b>Coursework = 100%</b>  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr J Rose   |               |                  |        |

## History - Early Modern History MLitt & MPhil - 2015/6 - November 2015

| MO5602 Directed Reading in Modern History  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | <p>Compulsory for The Book: History and Techniques of Analysis and Intellectual History Postgraduate Programmes.</p> <p>Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and Transnational, Global and Spatial History Postgraduate Programmes.</p> |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |        |
| <b>Assessment pattern:</b>   | <b>Coursework = 100 %</b>   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Team taught   |               |                  |        |

| MO5609 Directed Reading in Modern History 2  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and The Book. History and Techniques of Analysis Postgraduate Programmes.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | <b>Coursework = 100 %</b>   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Team taught   |               |                  |   |



## History - Early Modern History MLitt & MPhil - 2015/6 - November 2015

| MO5613 History of Modern Science  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Science and technology are key elements of modernity, and, of course, they have a history. This module will introduce students to core themes in the history of science from the Scientific Revolution onwards. Students will read a mixture of primary and secondary sources, and will be challenged to think about changes over time in such issues as: the definition and cultural status of 'science'; the status and role of its practitioners; the motivations for the pursuit of natural knowledge; the methods employed for making and communicating knowledge; and the spaces and sites of knowledge production and communication. Sessions will usually be co-taught by members of staff who bring different perspectives, cases and period-expertise to the discussion.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Early Modern History, Environmental History, Intellectual History and Modern History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | <b>Coursework = 100%</b>   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Fyfe  |               |                  |   |

| SC5201 Religion and Identity in Early Modern Britain   |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| <p>The purpose of this module is to explore the significance of the Reformation in reshaping the ways in which Scots and Englishmen perceived themselves as members of distinct Protestant churches and communities in the sixteenth and seventeenth centuries and the extent to which such self-definitions promoted or challenged ideas of British religious unity and integration. It thus examines the emergence of separate ecclesiastical structures and identities in the decades before the Anglo-Scottish union of 1603 and the religious conflicts that arose from the Stuart monarchy's subsequent attempts to impose a highly contested understanding of British ecclesiastical conformity on their Scottish and English kingdoms.</p> |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History, Scottish Historical Studies or Reformation Studies Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |        |
| <b>Assessment pattern:</b>   | <b>Coursework = 100%</b>   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Prof R Mason   |               |                  |        |

## Masters in Iranian Studies

### Also Postgraduate Diploma and MPhil

Programme Coordinator: Prof Ali Ansari

**Taught Element:**

40 credits: MH5101

80 credits: MH5001, MH5111, MH5112

OR 50 credits: MH5001, MH5111, MH5112, MH5201 + 40 credits from Persian (PR) language modules at levels appropriate to the student's level of proficiency.

**MLitt:**

120 credits as for the Taught Element plus HI5099

**MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| MH5101 Themes in Middle Eastern History and Politics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module is intended to introduce students to themes and debates in Middle Eastern history and politics. It looks at a variety of theoretical and disciplinary approaches, including Orientalism, as well as exploring questions of nationalism, statehood and identity. Themes include religion, state and society and Iranian relations with the West. It also exposes students to a wide range of historical writing from late antiquity to the twentieth century. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for the Iranian Studies and Middle Eastern History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Ansari  |               |                  |   |

## History - Iranian Studies MLitt - 2015/6 - November 2015

| HI5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Iranian Studies MLitt Postgraduate Programme.<br>One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team Taught   |               |                  |            |

## Two of:

| MH5001 Directed Reading in Middle Eastern History   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| A directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student in consultation with a supervisor. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching of undergraduate work and the independence of postgraduate dissertations. The project will normally take the form of two or three essays comprising methodological or bibliographical studies and primary research on narrowly defined topics. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for the Middle Eastern History Postgraduate Programme.<br>Optional for the Iranian Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Prof A Ansari   |               |                  |            |

| MH5111 Iran and the World since 1921   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module is intended to take an in-depth look at the development of the modern Iranian state from its inception under Reza Khan in the 1920s to the present day. The module will look at the growth of the state, economic development, relations with the West, Britain and the United States in particular, before turning to the Islamic Revolution and its consequences, with particular focus on the social changes engendered by revolution and war, culminating in the Presidency of Mohammad Khatami, its causes and consequences. While following a broad chronological perspective, students will be encouraged to engage with the themes and historical tensions highlighted by the module.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for the Iranian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour seminar.                |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Ansari   |               |                  |   |

| MH5112 Mediaeval Iran: from the Sasanids to the Samanids  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module is intended to take an in-depth look at the changing nature of Iran from the perspective of its politics, religion and culture in the period ca. 200-1000. During this time it went from being an expansive imperial power (3rd - 7th centuries) to a defeated province of the early Arab state (7th - 8th centuries), to the heart of a new Islamic empire (8th - 9th centuries) and finally the home of a number of Iranian dynasties (9th century onwards). The module will look at such issues as Sasanid Iran's place in Late Antique culture, the passage from Zoroastrianism to Islam, the meaning of Iranian identity, Iran's impact on Islamic culture and politics, the significance of the rise of the New Persian language, changes in the social makeup of Iran over the period under study, and so on. While following a broad chronological perspective, students will be encouraged to engage with the themes and historical tensions highlighted by the module.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for the Iranian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour seminar.                |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof A Ansari   |               |                  |   |

**OR If studying the Persian Language - do 40 credits of Persian at the appropriate level and choose one of the above plus:**

| MH5201 Middle Eastern Historical Translation   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Available only to students on Iranian Studies or Middle Eastern History Postgraduate Programmes. |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module is intended to complement and supplement Persian language modules and to serve as a bridge between the language modules and history modules which constitute the majority of the MLitt in Iranian Studies programme, and is assessed through the submission of an annotated translation from Persian into English. The specific text will be agreed with the course tutor and will be relevant both to the student's specific research interests and their proficiency in Persian. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Iranian Studies and Middle Eastern History Postgraduate Programmes.                 |               |                  |   |
| <b>Pre-requisite(s):</b>   | (AR1001 or AR2001 or AR3401 or AR4401 or (PR1001 or PR2001 or PR3001)                            |               |                  |   |
| <b>Co-requisite(s):</b>  | (AR1002 or AR2002 or AR3402 or AR4402) or (PR1002 or PR2002 or PR3002)                           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b>   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Ansari  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof A Ansari  |               |                  |   |

## Masters in Mediaeval History

### Also Postgraduate Diploma and MPhil

Programme Coordinator: Prof John Hudson

**Taught Element:**

40 credits: ME5002

40 credits: ME5001, SC5202

20 credits: ME5005

20 credits: HI5004, or Arabic (AR), French (FR), German (GM), Italian (IT), Spanish (SP) language modules at the level appropriate to the student's level of proficiency.)

**MLitt:**

120 credits as for the Taught Element plus ME5099

**MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| ME5002 Sources and Source Criticism (40)  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module addresses interpretation and criticism of mediaeval sources. A taught core in semester one concentrates upon a selected central body of documentation and its associated problems and introduces appropriate skills training. This is completed in semester two by an extended paper, together with training in seminar presentation and discussion skills. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Mediaeval History Postgraduate Programme.                      |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1.5-hour seminar and individual tutorials as required. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Prof R Bartlett   |               |                  |            |

| ME5005 An Introduction to Palaeography with Codicological and Manuscript Studies   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| This module is an introductory survey of the history of the mediaeval manuscript. Through a series of practical exercises students will learn to transcribe documents. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Mediaeval History Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.                          |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Prof R Bartlett  |               |                  |            |

## History - Mediaeval History MLitt & MPhil 2015/6 - November 2015

| ME5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor                   |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted at a specified date late in August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Mediaeval History MLitt Postgraduate Programme |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision                 |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                              |               |                  |            |
| <b>Module Co-ordinator:</b>   | Prof R Bartlett   |               |                  |            |

### One of:

| ME5001 Special Topic in Mediaeval History   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |            |
| This module is a detailed study of a mediaeval topic of the student's own choice which, as appropriate, will include tutorials with a designated tutor. |  |               |                  |            |
| <b>Programme module type:</b>   | Optional for Mediaeval History Postgraduate Programmes.                          |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-3 hour seminar or individual tutorials as required. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Prof R Bartlett  |               |                  |            |

| SC5202 Living with the Lion: Themes in the Study of Mediaeval Scotland  |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |        |
| This module explores key themes and texts in the study of mediaeval Scotland, particularly concerning elite culture and the power structures of the kingdom. This module will enable postgraduate students to develop conceptually advanced ideas about the mediaeval kingdom, as well as gain essential skills in comprehension, source criticism and methodology. In addition to this, the module will expose students to major and pivotal debates in Scottish historiography by directing students to consider issues that have preoccupied scholars in this field. |   |               |                  |        |
| <b>Programme module type:</b>   | Optional for Mediaeval History or Scottish Historical Studies Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr K Stevenson  |               |                  |        |

20 credits: HI5004, or Arabic (AR), French (FR), German (GM), Italian (IT), Spanish (SP) language modules at the level appropriate to the student's level of proficiency.)

| HI5004 Historical Sources and Skills 3  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| The aim of this module is to give students a chance to acquire a technical skill crucial for their research plans, not just for the taught postgraduate programme but also with a view to further doctoral work. Students can choose from several available training options, among them training in a number of relevant languages (incl. Latin and Arabic) and advanced bibliography. |   |               |                  |            |
| <b>Programme module type:</b>   | Optional for Early Modern History, Mediaeval History, Reformation Studies and Scottish Historical Research Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team Taught   |               |                  |            |



## Masters in Middle Eastern History

### Also Postgraduate Diploma and MPhil

Programme Coordinator: Prof Ali Ansari

**Taught Element:**

40 credits: MH5101

80 credits: MH5001, MH5002, IR5212

OR 50 credits: MH5001, MH5002, MH5201, IR5212 + 40 credits: (AR1001 + AR1002), or (AR2001 + AR2002) or (PR1001 + PR1002)

**MLitt:**

120 credits as for the Taught Element plus one of AP5099, HI5099, ME5099 or MO5099

**MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| MH5101 Themes in Middle Eastern History and Politics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module is intended to introduce students to themes and debates in Middle Eastern history and politics. It looks at a variety of theoretical and disciplinary approaches, including Orientalism, as well as exploring questions of nationalism, statehood and identity. Themes include religion, state and society and Iranian relations with the West. It also exposes students to a wide range of historical writing from late antiquity to the twentieth century. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for the Iranian Studies and Middle Eastern History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Ansari  |               |                  |   |

| MH5001 Directed Reading in Middle Eastern History  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| <p>A directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student in consultation with a supervisor. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching of undergraduate work and the independence of postgraduate dissertations. The project will normally take the form of two or three essays comprising methodological or bibliographical studies and primary research on narrowly defined topics.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Middle Eastern History Postgraduate Programme.<br>Optional for the Iranian Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Prof A Ansari   |               |                  |            |

**One of:**

| AP5099 Dissertation for MLitt Programme/s  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.   |               |                  |            |
| <p>Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August.</p> |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Middle Eastern Literary and Cultural Studies MLitt Postgraduate Programme.<br>One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Team Taught  |               |                  |            |

| HI5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Iranian Studies MLitt Postgraduate Programme.<br>One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team Taught   |               |                  |            |

| ME5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Mediaeval History MLitt Postgraduate Programme.<br>One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team Taught   |               |                  |            |

| MO5099 Dissertation for MLitt Programme/s   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.   |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for The Book, Early Modern History, Intellectual History, Modern History, Reformation Studies, and Transnational History MLitt Postgraduate Programmes<br>One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme.<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team Taught  |               |                  |            |

**OR 50 credits: MH5001, MH5002, MH5201, IR5212 + 40 credits: (AR1001 + AR1002), or (AR2001 + AR2002) or (PR1001 + PR1002)**

| MH5201 Middle Eastern Historical Translation   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Available only to students on Iranian Studies or Middle Eastern History Postgraduate Programmes. |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module is intended to complement and supplement Persian language modules and to serve as a bridge between the language modules and history modules which constitute the majority of the MLitt in Iranian Studies programme, and is assessed through the submission of an annotated translation from Persian into English. The specific text will be agreed with the course tutor and will be relevant both to the student's specific research interests and their proficiency in Persian. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Iranian Studies and Middle Eastern History Postgraduate Programmes.                 |               |                  |   |
| <b>Pre-requisite(s):</b>   | (AR1001 or AR2001 or AR3401 or AR4401 or (PR1001 or PR2001 or PR3001)                            |               |                  |   |
| <b>Co-requisite(s):</b>  | (AR1002 or AR2002 or AR3402 or AR4402) or (PR1002 or PR2002 or PR3002)                           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b>   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Ansari  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof A Ansari  |               |                  |   |

| AR1001 Arabic for Beginners 1  |  |              |                  |   |
|--|--|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 7 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am or, if timetable clash, 12.00 noon on Mon; 11.00 am or, if timetable clash, 12.00 noon Tue - Fri, or 4.00 pm, Tue, Thu, Fri and 9.00 am Wed, or 2.00 pm, Tue, Thu, Fri and 9 am Wed |              |                  |   |
| This module, together with AR1002, will enable students to read, write and converse in simple Modern Standard Arabic. It will cover the Arabic alphabet and writing system, and begin the study of Arabic grammar. A selection of non-literary modern Arabic texts will be read in class as the basis of language teaching, classroom drills, tests and written assignments and oral class work. |  |              |                  |   |
| <b>Programme module type:</b>  | Optional for Middle Eastern History Postgraduate Programme.  |              |                  |   |
| <b>Anti-requisite(s):</b>  | Native Speaker of Arabic who is fluent in Modern Standard Arabic, a pass at Higher, A-Level or equivalent.   |              |                  |   |
| <b>Required for:</b>   | AR1002   |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 5 language classes and 1 surgery hour.  |              |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, approximately 15-minute Practical Examination = 20%, Coursework = 40%  |              |                  |   |
| <b>Module Co-ordinator:</b>  | Dr F Caiani  |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr F Caiani, Ms D Al Afranji, Mr M Whitehouse  |              |                  |   |

## History - Middle Eastern History MLitt & MPhil - 2015/6 - November 2015

| AR1002 Arabic for Beginners 2   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 7         | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am or, if timetable clash, 12.00 noon on Mon; 11.00 am or, if timetable clash, 12.00 noon Tue - Fri, or 3.00 pm Tue - Fri, or 4.00 pm, Tue, Thu, Fri and 9.00 am Wed |                      |                  |   |
| This module will complete the work of AR1001 and prepare students for AR2001. It will cover the remaining points of Arabic grammar, using a selection of representative non-literary texts. Please note that this module is not designed for native or heritage speakers of Arabic. |  |                      |                  |   |
| <b>Programme module type:</b>   | Optional for Middle Eastern History Postgraduate Programme.  |                      |                  |   |
| <b>Pre-requisite(s):</b>  | AR1001   |                      |                  |   |
| <b>Anti-requisite(s):</b>   | Native Speaker of Arabic who is fluent in Modern Standard Arabic.  | <b>Required for:</b> | AR2001           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 5 language classes and 1 surgery hour.  |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, approximately 15-minute Practical Examination = 20%, Coursework = 40%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | Dr F Caiani  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr F Caiani, Ms D Al Afranji, Mr M Whitehouse  |                      |                  |   |

| AR2001 Intermediate Arabic 1  |   |                      |                  |   |
|---|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 8         | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am. If timetable clash, 2.00 pm Wed, Thu and Fri, or 4.00 pm Wed, Thu and Fri                     |                      |                  |   |
| This module, together with AR2002, will enable students to read and write Modern Standard Arabic to intermediate level with the aid of a dictionary, and to speak in standard Arabic on appropriate topics with a limited vocabulary. Oral work and written class work will be based on a series of texts selected for their relevance to the understanding of contemporary issues and culture. |   |                      |                  |   |
| <b>Programme module type:</b>   | Optional for Middle Eastern History Postgraduate Programme.   |                      |                  |   |
| <b>Pre-requisite(s):</b>  | AR1002  | <b>Required for:</b> | AR2002           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 5 language classes and 1 surgery hour.   |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, approximately 15-minute Practical Examination = 20%, Coursework = 40% |                      |                  |   |
| <b>Module Co-ordinator:</b>   | Dr F Caiani   |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr F Caiani, Ms D Al Afranji, Mr M Whitehouse   |                      |                  |   |

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| AR2002 Intermediate Arabic 2   |   |              |                  |   |
|--|---|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 8 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am. If timetable clash, 10.00 am Wed, 2.00 pm Thu and Fri, or 4.00 pm Wed, Thu and Fri            |              |                  |   |
| This module continues the work of AR2001 and prepares students for Honours modules in Arabic. In tutorials, applied language work uses passages from contemporary and modern writings, selected for their relevance to the understanding of contemporary issues, language and thought. In classes/lectures, representative literary texts provide an introduction to key themes in Arabic culture. |   |              |                  |   |
| <b>Programme module type:</b>  | Optional for Middle Eastern History Postgraduate Programme.   |              |                  |   |
| <b>Pre-requisite(s):</b>   | AR2001  |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 5 language classes and 1 surgery hour.   |              |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, approximately 15-minute Practical Examination = 20%, Coursework = 40% |              |                  |   |
| <b>Module Co-ordinator:</b>  | Dr F Caiani   |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr F Caiani, Ms D Al Afranji, Mr M Whitehouse   |              |                  |   |

| PR1001 Persian for Beginners 1  |   |              |                  |   |
|---|---|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 7 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm Mon to Fri  |              |                  |   |
| This is a beginner's level language module, which teaches the skills of reception (reading and listening) and production (speaking and writing) in Persian. The aim is to familiarise students with the spoken and written forms of Persian, to enable them to express themselves in writing, role-play and basic dialogues, and to begin to read basic authentic texts. Please note that this module is not designed for native or heritage speakers of Persian. |   |              |                  |   |
| <b>Programme module type:</b>   | Optional for Middle Eastern History Postgraduate Programme.   |              |                  |   |
| <b>Anti-requisite(s):</b>   | Native speaker of Persian, a pass at Higher, A-Level or equivalent.                                     |              |                  |   |
| <b>Required for:</b>  | PR1002  |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 5 language classes and 1 surgery hour.   |              |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, approximately 15-minute Practical Examination = 20%, Coursework = 40% |              |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Ghorbankarimi  |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Ghorbankarimi  |              |                  |   |

| PR1002 Persian for Beginners 2  |   |              |                  |   |
|---|---|--------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 7 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm Mon to Fri  |              |                  |   |
| This module is a continuation of PR1001, developing reception skills (reading and listening), and language production (speaking and writing) in Persian. It also provides an introduction to elementary translation between Persian and English. Please note that this module is not designed for native or heritage speakers of Persian. |   |              |                  |   |
| <b>Programme module type:</b>   | Optional for Middle Eastern History Postgraduate Programme.   |              |                  |   |
| <b>Pre-requisite(s):</b>  | PR1001  |              |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 5 language classes and 1 surgery hour.   |              |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, approximately 15-minute Practical Examination = 20%, Coursework = 40% |              |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Ghorbankarimi  |              |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Ghorbankarimi  |              |                  |   |

## Masters in Modern History

### Also Postgraduate Diploma and MPhil

Programme Coordinator: Dr Emma Hart

**Taught Element:**

40 credits: either MO5601 or MO5801

40 credits: MO5602

40 credits: MO5603 - MO5650, MO5710, FR5014, SC5203

**MLitt:**

120 credits as for the Taught Element plus MO5099

**M.Phil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| MO5601 History in the Making: Theories, Approaches and Practice  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| The module examines the development of history-writing and historical research since the Enlightenment, and the emergence of fields, trends and new approaches in current historiography. It brings together material from a range of historical approaches in order to provide a strong introduction to history and historiography at postgraduate level. Its combination of substantive and historiographical material enables the module to be used as a free-standing guide for those humanities students who are not based in History but who wish to take an elective module in the subject. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Environmental History Postgraduate Programme.<br>MO5601 or MO5801 compulsory for Modern History Postgraduate Programme.<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1.5-hour weekly seminars.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr E Hart  |               |                  |            |



## History - Modern History MLitt & MPhil - 2015/6 - November 2015

| MO5602 Directed Reading in Modern History  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | <p>Compulsory for The Book: History and Techniques of Analysis, Intellectual History and Modern History Postgraduate Programmes.</p> <p>Optional for Central and East European Studies, Early Modern History, Environmental History, Reformation Studies and Transnational, Global and Spatial History Postgraduate Programmes.</p> |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Team taught   |               |                  |        |

| MO5099 Dissertation for MLitt Programme/s  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.  |               |                  |            |
| <p>Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | <p>Compulsory for The Book, Early Modern History, Intellectual History, Modern History, Reformation Studies, and Transnational History MLitt Postgraduate Programmes</p> <p>One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme.</p> <p>Optional for Central and East European Studies Postgraduate Programme.</p> |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Team Taught   |               |                  |            |

## Optional modules:

| MO5604 Key Issues in German Historiography   |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| This module is designed to engage with some of the most hotly disputed issues in German history. By focusing on three aspects central to our understanding of the development of modern Germany, students will have an opportunity to tackle some of the most sophisticated and influential writings on German history. Through the study of these controversies students will not only gain an insight into three pivotal concepts in German history but will also be exposed to most major strands in German historiography. While the ability to read German would be an advantage, it is by no means a prerequisite for this module. |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Environmental History and Modern History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr R Bavaj   |               |                  |        |

| MO5605 Themes in American History   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| This module will enable postgraduate students to tackle at a conceptually advanced level a selection of the most important issues in the history of North America, from its foundations as European colonies onwards. The module will expose students to several key debates in American historiography by focusing on a series of issues that have especially preoccupied scholars in the field. |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Environmental History and Modern History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars.  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr E Hart  |               |                  |        |

## History - Modern History MLitt & MPhil - 2015/6 - November 2015

| MO5606 Perceptions of Central and Eastern Europe  |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>Perceptions of Central and Eastern Europe are as diverse as the ethnic and cultural characteristics of the region itself, and have undergone significant transformation since the emergence of modern nationalism in the mid-nineteenth century. As the Mitteleuropa of German imperial aspirations gave way to the successor states of the Versailles settlement, then to Soviet-dominated Eastern Europe in a polarised Cold War continent, and, most recently, to the post-Communist "return to Europe", the correspondingly evolving views from the periphery, from Germany and Russian, and from within the region itself offer a rich and challenging subject for advanced historical study.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Environmental History and Modern History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars.  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr T Kamusella   |               |                  |        |

| MO5608 Themes and Debates in Modern French History  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.                                      |               |                  |   |
| <p>This module explores key themes in French history and introduces students to some important historiographical and methodological issues. The module is intended to combine study of key individual topics such as the ancien regime, the republic and French colonialism with some more conceptual notions relating to history and memory; key formative influences on developments in French history, and the changing methodological, intellectual and ideological approaches adopted by French historians. The seminars place an emphasis on the evolution of historical writing about France, by both non-French and French historians, and where possible will allow students to read key texts in the original French.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Modern History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars.              |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%                                    |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Easterby-Smith                                  |               |                  |   |

| MO5609 Directed Reading in Modern History 2  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and The Book. History and Techniques of Analysis Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Team taught  |               |                  |   |

| MO5612 Global History, Globalisation and its Histories   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Thu   |               |                  |   |
| <p>The module is designed as an introductory module to the field of global history, its methods, approaches and recent historiographical trends. It is divided into two parts. The first part is designed as an introduction to recent trends that have contributed to the emergence of global history. Furthermore, the first part discusses several distinct fields and schools (such as the concept of World Systems by I. Wallerstein) and key narratives and texts (C. Bayly and K. Pommeranz). The second part engages with different processes that have spurred globalisation since the early modern period – the key focus, however, is on the late-modern period from c.1750. These include processes such as migration, urbanisation, technology or disease. Selected sessions, in particular in part II, may be co-taught by two members of staff who will bring different perspectives, cases and periods to these processes.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Modern History or Transnational History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Easterby-Smith   |               |                  |   |

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| MO5613 History of Modern Science  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Science and technology are key elements of modernity, and, of course, they have a history. This module will introduce students to core themes in the history of science from the Scientific Revolution onwards. Students will read a mixture of primary and secondary sources, and will be challenged to think about changes over time in such issues as: the definition and cultural status of 'science'; the status and role of its practitioners; the motivations for the pursuit of natural knowledge; the methods employed for making and communicating knowledge; and the spaces and sites of knowledge production and communication. Sessions will usually be co-taught by members of staff who bring different perspectives, cases and period-expertise to the discussion.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Early Modern History, Environmental History, Intellectual History and Modern History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Fyfe  |               |                  |   |

| MO5710 Crossing Borders: European History in Transnational Perspective   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.                                     |               |                  |   |
| <p>This module focuses on late-modern European history and its historiography from the late-eighteenth to the late-twentieth century as well as on the inter-connection between Europe (the West) and non-European areas. Questioning the impact of the nation and nation-states as well as nation-dominated narratives, the module focuses on transnational aspects and approaches including comparative history, cultural transfers and entangled history. The module reflects on the ongoing process of the Europeanisation of Europe and the increasing interest in global history both of which challenge the writing of national as well as European history. The first three sessions are dedicated to an introduction of the main concepts and methods currently used in the field of transnational history, such as comparison and transfer. The module then focuses on empirical examples such as the French Revolution, Europe and the Mediterranean World, Intellectuals in interwar France and Germany or the emergence of national opera houses in Western and Central Europe during the nineteenth century. Based on these empirical case studies, the module seeks to find answers on how to frame transnational history chronologically and geographically in addition to national narrative.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Modern History Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.             |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                                   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Easterby-Smith                                 |               |                  |   |

## History - Modern History MLitt & MPhil - 2015/6 - November 2015

| FR5014 Specialised Research in French Studies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of French for the exploration of a relevant topic in some depth. Potential subjects of study could include, for example, literature and culture of the Renaissance, C17th-C20th theatre, literature and ideas of the Enlightenment, C19th and C20th literature, culture, politics and society, music and poetry, autobiography, C21st literature, modern French thought, cinematic adaptations of French novels. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of readings.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for French Studies Postgraduate Programme.<br>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Laügt  |               |                  |   |

| SC5203 Building Britain: The Construction and Deconstruction of Britishness since 1707  |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>This module explores the concept of 'Britishness', its construction and deconstruction, from 1707 - 2000. The module is intended to combine the study of key individual topics such as the Growth and Decline of Britain's Empire, the two World Wars, The Welfare State etc with a more conceptual notion - the construction of British national identity. It will combine political, social, economic and cultural history and will introduce students to key debates in British historiography.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Modern History or Scottish Historical Studies Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Prof R Mason   |               |                  |        |

## Masters in Reformation Studies

### Also Postgraduate Diploma and MPhil

Programme Coordinator: Dr Bridget Heal

**Taught Element:**

40 credits: MO5011

80 credits: MO5002 - MO5007, MO5010, MO5602, MO5609, MO5905, SC5022, SC5052, SC5201, (two of MO5030 - MO5039)

**MLitt:**

120 credits as for the Taught Element plus MO5099

**MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| MO5011 Aspects of Reformation   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |            |
| This module explains selected themes in Reformation Studies and encourages students to develop a sense of the historiography of the period. It is the core course of the Reformation Studies MLitt. Each theme is treated in these seminars with students being required to make presentations on current historical debates. The themes include: Reformation theology, popular religion, the local reformation and the printed book. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Reformation Studies Postgraduate Programme.                     |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorial and other teaching as appropriate. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr B Heal  |               |                  |            |

## History - Reformation Studies MLitt & MPhil - 2015/6 - November 2015

| MO5099 Dissertation for MLitt Programme/s   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.   |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for The Book, Early Modern History, Intellectual History, Modern History, Reformation Studies, and Transnational History MLitt Postgraduate Programmes<br>Optional for Central and East European Studies Postgraduate Programme.<br>One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr J Clark   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | By arrangement   |               |                  |            |

### Optional modules:

| MO5004 War, State and Society in Early Modern Europe and New Worlds  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| This module will explore the transformations in the size, scale and scope of European warfare between the late fifteenth and late eighteenth centuries. Such developments as the proliferation of gunpowder weaponry and the transformation of fortifications, considered by some historians as a "Military Revolution", altered the nature of warfare but also had considerable effects, often detrimental, on the state, society and good order. Moreover, Europeans exported their arts of war to other continents in competition with each other, and their encounters with other peoples in the Mediterranean basin, the Americas and East Asia led to further military adaptation. The module will investigate the military developments of the period on land and to a lesser extent at sea, but also the effects they had on the state and on civilians. |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History and Reformation Studies Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr G Rowlands  |               |                  |        |



| MO5007 The European Renaissance  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| <p>The Italian Renaissance has been seen as a turning point in European history. Writing in the nineteenth century, Jakob Burckhardt famously defined it as a golden age, marked above all by individualism, a love of ancient classics, amorality and antipathy to Christianity. Northern Europe, in the view of Burckhardt and his successor Johann Huizinga, was, by contrast, a society in decline. This module will compare and contrast the Italian and Northern Renaissances, examining their mediaeval origins and exploring themes such as religion, humanism, court and urban life, in order to test this traditional interpretation. Throughout, we will make extensive use of primary sources, both textual and visual, including works by Petrarch, Thomas à Kempis, Lorenzo Valla, Erasmus, Baldassare Castiglione, Thomas More, Hans Holbein, and Albrecht Dürer.</p> |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History and Reformation Studies Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr E Michelson   |               |                  |        |

| MO5010 Political Thought and Intellectual History  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| <p>This module will offer a rich and varied graduate-level introduction to the political theory and intellectual history of the early modern period. There will be an emphasis upon English-speaking examples but always set within the context of broader European developments. Particular themes will be explored through the study of key texts and will include explanations of the relationship between state and society, theories of legitimacy and political obligation, accounts of the origins of government, and emerging interest in specific aspects of governmental activity.</p> |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History and Reformation Studies Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr J Rose  |               |                  |        |

## History - Reformation Studies MLitt & MPhil - 2015/6 - November 2015

| MO5602 Directed Reading in Modern History  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | <p>Compulsory for The Book: History and Techniques of Analysis and Intellectual History Postgraduate Programmes.</p> <p>Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and Transnational, Global and Spatial History Postgraduate Programmes.</p> |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr J Clark  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | By arrangement  |               |                  |        |

| MO5609 Directed Reading in Modern History 2  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and The Book. History and Techniques of Analysis Postgraduate Programmes.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M McLean   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | By arrangement  |               |                  |   |

| <b>SC5052 Directed Reading in Scottish History</b>  |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>A directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Compulsory for Scottish Historical Studies Postgraduate Programme.<br>Optional for Reformation Studies Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorial.   |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Prof R Mason   |               |                  |        |

| <b>SC5201 Religion and Identity in Early Modern Britain</b>  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>The purpose of this module is to explore the significance of the Reformation in reshaping the ways in which Scots and Englishmen perceived themselves as members of distinct Protestant churches and communities in the sixteenth and seventeenth centuries and the extent to which such self-definitions promoted or challenged ideas of British religious unity and integration. It thus examines the emergence of separate ecclesiastical structures and identities in the decades before the Anglo-Scottish union of 1603 and the religious conflicts that arose from the Stuart monarchy's subsequent attempts to impose a highly contested understanding of British ecclesiastical conformity on their Scottish and English kingdoms.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History, Scottish Historical Studies or Reformation Studies Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Prof R Mason  |               |                  |        |

Two of the following in place of 40-credit option:

| MO5030 Early Modern Documents and Sources   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm - 5.00 pm Thu  |                           |                  |   |
| <p>This module provides a wide-ranging introduction to the types of source material which researcher on the early modern period may encounter. In studying this module, you will be trained in critical analysis of genres of both textual and material sources. It offers an introduction to methodological commentaries on the nature of such sources, a range of British, European, and global examples of them, and the chance for you to discuss examples drawn from your own particular areas of specialism. The module also provides a guide to analysing modern editions of documents and assessing their reliability. Its training in the variety of material which early modernists may unexpectedly find themselves working with, whatever their specialism, is an excellent complement to the other skills pathways, and important preparation for the MLitt (and any potential doctoral) dissertation.</p> |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |   |
| <b>Co-requisite(s):</b>   | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly 2-hour seminars.  |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr Michelson   |                           |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |   |

| MO5031 Latin for Postgraduate Research   |  |                           |                  |            |
|--|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 9.30 am - 11.00 am Mon and Tue   |                           |                  |            |
| <p>The three tiers of teaching (beginners, intermediate, and translation) provide suitable levels of engagement with Latin for students with earlier or no experience. The beginners' class covers the fundamentals of Latin grammar and syntax; gives practice in translating separate sentences, short Latin passages written specifically for the class; passages of genuine Latin taken from a wide variety of sources including the Vulgate, the Church Fathers, Mediaeval, and later historians, hymns, and popular verses; surveys various types of Latin literature from late antiquity to the eighteenth century, Latin as a spoken language, pronunciation, and the advantages of Latin as a lingua franca; translation techniques. The intermediate class offers revision and consolidation of the above, introducing students to more complex aspects of grammar and syntax. The advanced translation class uses authors of verse and prose, analyses Latin styles, includes translation into Latin as well as from Latin into English, and offers exercises in recognising and correcting mistakes in modern published authors' versions of Latin texts, and in improving other versions and in correctly transcribing and translating manuscript material.</p> |  |                           |                  |            |
| <b>Programme module type:</b>  | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |            |
| <b>Co-requisite(s):</b>  | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 x fortnightly 1.5-hour seminars.  |                           |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                           |                  |            |
| <b>Module Co-ordinator:</b>  | Dr P Maxwell-Stuart  |                           |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr P Maxwell-Stuart  |                           |                  |            |

## History - Reformation Studies MLitt & MPhil - 2015/6 - November 2015

| MO5032 Material Bibliography  |  |                           |                  |            |
|---|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Thu  |                           |                  |            |
| <p>Material Bibliography is a year-long training option intended for students enrolled on the Book History, Reformation Studies or Early Modern MLitt programmes. It covers the use of the Book as historical evidence, and practical aspects of cataloguing and Special Collections work. Closely supervised seminars will cover: Basic tools? Databases and how to identify hand pressed books; Reading a title page; Latin for book historians; Printers, publishers and booksellers; Paper and format; Collation formulae and pagination, type description; Fingerprints; Refresher – edition vs. copy; Provenance; Binding and Bindings; Workshop – describing books; Databases and bibliometrics. Semester one focuses on group training, semester two on supervised individual practice.</p> |  |                           |                  |            |
| <b>Programme module type:</b>   | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |            |
| <b>Co-requisite(s):</b>   | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly 2-hour seminars or 2.5-hour practical classes.  |                           |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M McLean  |                           |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |                           |                  |            |

| MO5033 Paleography and Manuscript Studies   |  |                           |                  |   |
|---|--|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11             | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Fri   |                           |                  |   |
| <p>This module provides a wide-ranging introduction to the reading and handling of original source material of all types which researchers of the early modern period may encounter. In studying this module, you will gain the skills you need to read early modern handwriting and gain a sense of the nature of European handwriting in the early modern period. You will learn how to create a transcription (to professional standards). The module also provides experience in handling original source materials. This training in the variety of material which early modernists may find themselves working with, whatever their specialism, is an excellent complement to the other skills pathways, and important preparation for the MLitt (and any potential doctoral) dissertation.</p> |  |                           |                  |   |
| <b>Programme module type:</b>   | Optional for The Book:History and Techniques of Analysis, Early Modern History, Reformation Studies Postgraduate Programmes. |                           |                  |   |
| <b>Pre-requisite(s):</b>  |  |                           |                  |   |
| <b>Co-requisite(s):</b>   | Another of MO5030 - MO5039   | <b>Anti-requisite(s):</b> | MO5012           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars   |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                           |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Connolly  |                           |                  |   |

## Masters in Scottish Historical Studies

Programme Coordinator: Professor Roger Mason

### **Taught Element:**

80 credits: SC5051 and SC5052

40 credits: HI5002 - HI5004, SC5201 - SC5203, appropriate skills (credit transfer)

### **MLitt:**

120 credits as for the Taught Element plus SC5099

### **MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| SC5051 Scotland's Pasts: Writing Scotland from the Middle Ages to the Present  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| <p>This module is designed to give graduate students a thorough grounding in the history of historical writing in Scotland in a way that introduces them to the range of practical and methodological issues associated with the study of past cultures and societies. It surveys the development of forms of historical writing in Scotland from the Middle Ages to the present day. Beginning with medieval chronicles, it goes on to examine how an established narrative of nationhood was refashioned in the light of Renaissance sensibilities and the political exigencies of the Protestant Reformation. It then examines the transformations in historical consciousness and methodologies with which Scots were particularly engaged during the Enlightenment as well as the antiquarian culture that fed the romantic imagination. The development of Scottish history as an academic field of study in the twentieth century then offers a bridge to the series of specific case studies in modern Scottish historiography. Here the modern historiography of particular episodes and issues is used to illuminate recent developments in historical approaches and methods and to familiarise students with the range of literature on some of the most contested aspects of the Scottish past.</p> |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Scottish Historical Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorial.                       |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Prof R Mason   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof R Mason   |               |                  |            |

## History - Scottish Historical Studies - MLitt & MPhil - 2015/6 - November 2015

| SC5052 Directed Reading in Scottish History  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| A directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination. |  |               |                  |        |
| <b>Programme module type:</b>  | Compulsory for Scottish Historical Studies Postgraduate Programme.<br>Optional for Reformation Studies Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorial.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Prof R Mason   |               |                  |        |

| SC5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                              |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Scottish Historical Studies MLitt Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.                            |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Prof R Mason  |               |                  |            |

## Optional Modules:

| HI5002 Historical Sources and Skills 1  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| <p>The aim of this module is to give students a chance to acquire two technical skills which they must have in order to embark on their chosen path of research, not just for the MLitt dissertation but also for possible future PhD work. There is no set syllabus. Each student chooses two from the available options which currently are (i) Bibliography (ii) Palaeography and Diplomatic (iii) Language Training - Latin and French are currently offered, but the School can secure teaching in any appropriate language currently taught in the University (iv) Archaeology (v) Archive Studies (vi) Quantitative and Computing Skills for historians. The module can therefore vary considerably and may be taught almost entirely within one department (such as Modern History or Mediaeval History) or in a number of different department. Two semesters are essential because of the need for time to cope with a great deal of new and rigorous scholarly work.</p> |   |               |                  |            |
| <b>Programme module type:</b>   | Optional for Scottish Historical Studies Postgraduate Programmes.                   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars as appropriate up to 3 hours per week. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team taught   |               |                  |            |

| HI5003 Historical Sources and Skills 2  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| <p>The syllabus for this module is the same as for HI5002. Its aim is to allow students to acquire a further two technical skills from the list given under HI5002.</p> |   |               |                  |            |
| <b>Programme module type:</b>   | Optional for Scottish Historical Studies Postgraduate Programmes.                   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars as appropriate up to 3 hours per week. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team Taught   |               |                  |            |

| HI5004 Historical Sources and Skills 3   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| <p>The aim of this module is to give students a chance to acquire a technical skill crucial for their research plans, not just for the taught postgraduate programme but also with a view to further doctoral work. Students can choose from several available training options, among them training in a number of relevant languages (incl. Latin and Arabic) and advanced bibliography.</p> |  |               |                  |            |
| <b>Programme module type:</b>  | Optional for Early Modern History, Mediaeval History, Reformation Studies and Scottish Historical Studies Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Team Taught  |               |                  |            |



| SC5201 Religion and Identity in Early Modern Britain   |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>The purpose of this module is to explore the significance of the Reformation in reshaping the ways in which Scots and Englishmen perceived themselves as members of distinct Protestant churches and communities in the sixteenth and seventeenth centuries and the extent to which such self-definitions promoted or challenged ideas of British religious unity and integration. It thus examines the emergence of separate ecclesiastical structures and identities in the decades before the Anglo-Scottish union of 1603 and the religious conflicts that arose from the Stuart monarchy's subsequent attempts to impose a highly contested understanding of British ecclesiastical conformity on their Scottish and English kingdoms.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History, Scottish Historical Studies or Reformation Studies Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Prof R Mason  |               |                  |        |

| SC5202 Living with the Lion: Themes in the Study of Mediaeval Scotland   |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module explores key themes and texts in the study of mediaeval Scotland, particularly concerning elite culture and the power structures of the kingdom. This module will enable postgraduate students to develop conceptually advanced ideas about the mediaeval kingdom, as well as gain essential skills in comprehension, source criticism and methodology. In addition to this, the module will expose students to major and pivotal debates in Scottish historiography by directing students to consider issues that have preoccupied scholars in this field.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Mediaeval History or Scottish Historical Studies Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Prof R Mason  |               |                  |        |

| SC5203 Building Britain: The Construction and Deconstruction of Britishness since 1707  |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>This module explores the concept of 'Britishness', its construction and deconstruction, from 1707 - 2000. The module is intended to combine the study of key individual topics such as the Growth and Decline of Britain's Empire, the two World Wars, The Welfare State etc with a more conceptual notion - the construction of British national identity. It will combine political, social, economic and cultural history and will introduce students to key debates in British historiography.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Modern History, Scottish Historical Studies History and Transnational, Global and Spatial History Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Prof R Mason   |               |                  |        |

## Masters in Transnational, Global and Spatial History

Programme Coordinator: Dr Konrad Lawson

*Taught Element:*

40 credits: MO5151 and MO5152

40 credits: MO5161 OR (with the permission of the programme coordinator) EH5003, MH5101, MO5004, MO5008, MO5010, MO5023, MO5603, MO5605, MO5606, SC5203

40 credits: MO5602 OR (with the permission of the programme coordinator) EH5003, MH5101, MO5004, MO5008, MO5010, MO5023, MO5603, MO5605, MO5606, SC5203

**MLitt:** 120 credits as for the Taught Element plus MO5099

**MPhil:** 120 credits as for the Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules:

| MO5151 Global Times - Plural Spaces 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This core module for the MLitt in Transnational and Spatial History offers a strong foundation in the major approaches to comparative and transnational history as well as the emerging field of spatial history. This module introduces the origins of these new ways of looking at the past, as well as some of the major methodological challenges faced. The focus then shifts to consider transnational agents, networks, and new approaches to doing history between the micro and macro scales. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Transnational, Global and Spatial History Postgraduate Programme.<br>Optional for Environmental History Postgraduate Programme |               |                  |   |
| <b>Required for:</b>   | MO5152  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1.5-hour seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Lawson   |               |                  |   |

## History - Transnational History - MLitt & MPhil - 2015/6 - November 2015

| MO5152 Global Times - Plural Spaces 2  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This core module for the MLitt in Transnational and Spatial History offers a strong foundation in the major approaches to comparative and transnational history as well as the emerging field of spatial history. This module explores a variety of understandings of spatial history, including the idea of mental maps, the study of landscapes, places of memory and spatial practices. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Transnational, Global and Spatial History Postgraduate Programme.<br>Optional for Environmental History Postgraduate Programme |               |                  |   |
| <b>Pre-requisite(s):</b>   | MO5151  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1.5-hour seminar (x 11 weeks).   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Lawson   |               |                  |   |

| MO5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for The Book, Early Modern History, Intellectual History, Modern History, Reformation Studies, and Transnational History MLitt Postgraduate Programmes<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Team taught   |               |                  |            |

**Compulsory unless given permission to substitute from optional list:**

| <b>MO5161 Skills in Transnational History</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will equip MLitt students with skills necessary for historical research in the twenty-first century. Tailored specifically for students studying transnational, global and spatial history, the course will lead to the acquisition and development of skills in the digital humanities, and/or skills required for using specific historical sources. Students select two mini-modules from a range that includes GIS map-making; digital network analysis; translation; using non-textual sources. The course is distinctive in that it seeks to foster multi-disciplinary expertise among history students – with the aim of developing innovative approaches to the sub-disciplines of transnational, global and spatial history.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Transnational, Global and Spatial History Postgraduate programme.<br>Optional for Environmental History Postgraduate Programme |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 7 x 2-hour seminars and 4 x 2-hour practical classes over the semester.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Lawson   |               |                  |   |

| <b>MO5602 Directed Reading in Modern History</b>   |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |  |               |                  |        |
| <b>Programme module type:</b>  | Compulsory for The Book: History and Techniques of Analysis and Intellectual History Postgraduate Programmes.<br>Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Team taught  |               |                  |        |

**40 credits: MO5161 OR (with the permission of the programme coordinator) EH5003, MH5101, MO5004, MO5008, MO5010, MO5023, MO5603, MO5605, MO5606, SC5203**

| <b>EH5003 Environmental History: Nature and the Western World (1800 - 2000)</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module studies environmental history over the past two centuries in an international context. It examines attitudes to nature and animals, species history (extinctions and introductions), national parks and nature reserves, the history of environmentalism and nature conservation, the history of countryside recreation and tourism, and the history of current problems such as pollution and pesticide use. It will draw on examples taken from the USA, southern Africa, Australasia and Great Britain. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Environmental History, Modern Historiography Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar, fortnightly tutorial.                              |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Clark  |               |                  |   |

| <b>MH5101 Themes in Middle Eastern History and Politics</b>  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module is intended to introduce students to themes and debates in Middle Eastern history and politics. It looks at a variety of theoretical and disciplinary approaches, including Orientalism, as well as exploring questions of nationalism, statehood and identity. Themes include religion, state and society and Iranian relations with the West. It also exposes students to a wide range of historical writing from late antiquity to the twentieth century. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for the Iranian Studies and Middle Eastern History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Ansari  |               |                  |   |

| MO5004 War, State and Society in Early Modern Europe and New Worlds   |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>This module will explore the transformations in the size, scale and scope of European warfare between the late fifteenth and late eighteenth centuries. Such developments as the proliferation of gunpowder weaponry and the transformation of fortifications, considered by some historians as a "Military Revolution", altered the nature of warfare but also had considerable effects, often detrimental, on the state, society and good order. Moreover, Europeans exported their arts of war to other continents in competition with each other, and their encounters with other peoples in the Mediterranean basin, the Americas and East Asia led to further military adaptation. The module will investigate the military developments of the period on land and to a lesser extent at sea, but also the effects they had on the state and on civilians.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Early Modern History and Reformation Studies Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr G Rowlands  |               |                  |        |

| MO5008 The Creation of an Atlantic World   |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| <p>This module will introduce students to the concept of the Atlantic World, a unit of analysis used by historians to understand the changes wrought in the western hemisphere by the British, French, and Iberian discovery and settlement of the Americas, and by Europe's slave trade with Africa. Through study of the economic, social, intellectual, and legal implications of the establishment of this new field of human interaction between 1500-1800, students will gain an appreciation of the impact of these discoveries on old and new world societies alike. Discussion will also address the benefits and limitations of the idea of an Atlantic World for the study of the early modern era.</p> |  |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History and and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr E F K Hart  |               |                  |        |

## History - Transnational History - MLitt & MPhil - 2015/6 - November 2015

| MO5010 Political Thought and Intellectual History  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module will offer a rich and varied graduate-level introduction to the political theory and intellectual history of the early modern period. There will be an emphasis upon English-speaking examples but always set within the context of broader European developments. Particular themes will be explored through the study of key texts and will include explanations of the relationship between state and society, theories of legitimacy and political obligation, accounts of the origins of government, and emerging interest in specific aspects of governmental activity.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Early Modern History ,Reformation Studies and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr J Rose   |               |                  |        |

| MO5023 Disease and Environment (c.1500 - c.2000)  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>Before they are members of political and religious groupings, humans are biological entities. As such, throughout history humans have had to devise complex strategies to cope with fundamental biological factors. Focusing primarily upon an Anglo-American context, this course examines the manner in which sickness and death have shaped human history - both biologically and culturally - over the past 500 years. Consideration of patients' and practitioners' expectations, and of the changing meanings of cure, treatment, and care, encourages students to appreciate changing attitudes to health, hygiene, healing and illness within the social history of medicine. Moreover, through an examination of medical practitioners, hospitals, quarantine, inoculation, imperialism, urbanisation, and industrialisation, students will gain an appreciation of the historical relationships between the environment and disease.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Environmental History and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MO5223  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorial and other teaching as appropriate.                            |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Clark  |               |                  |   |

| <b>MO5605 Themes in American History</b>   |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module will enable postgraduate students to tackle at a conceptually advanced level a selection of the most important issues in the history of North America, from its foundations as European colonies onwards. The module will expose students to several key debates in American historiography by focusing on a series of issues that have especially preoccupied scholars in the field.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Environmental History, Modern History and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr S Easterby-Smith   |               |                  |        |

| <b>MO5606 Perceptions of Central and Eastern Europe</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Perceptions of Central and Eastern Europe are as diverse as the ethnic and cultural characteristics of the region itself, and have undergone significant transformation since the emergence of modern nationalism in the mid-nineteenth century. As the Mitteleuropa of German imperial aspirations gave way to the successor states of the Versailles settlement, then to Soviet-dominated Eastern Europe in a polarised Cold War continent, and, most recently, to the post-Communist "return to Europe", the correspondingly evolving views from the periphery, from Germany and Russian, and from within the region itself offer a rich and challenging subject for advanced historical study.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Central and East European Studies, Environmental History, Modern History and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T Kamusella   |               |                  |   |



| SC5203 Building Britain: The Construction and Deconstruction of Britishness since 1707  |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>This module explores the concept of 'Britishness', its construction and deconstruction, from 1707 - 2000. The module is intended to combine the study of key individual topics such as the Growth and Decline of Britain's Empire, the two World Wars, The Welfare State etc with a more conceptual notion - the construction of British national identity. It will combine political, social, economic and cultural history and will introduce students to key debates in British historiography.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Modern History, Scottish Historical Studies History and Transnational, Global and Spatial History Postgraduate Programme. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Prof R Mason   |               |                  |        |

## Interdisciplinary Degrees

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **MLitt:**

**Central and East European Studies** (*details not yet available*)

**Environmental History** ([link](#))

**Intellectual History** ([link](#))

**Mediaeval Studies** ([link](#))

#### **MSc:**

**Global Health Implementation** ([link](#))

**Health Psychology** ([link](#))

**Management and Information Technology** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Environmental History

Programme Coordinator: Dr John Clark

### **Taught Element:**

40 credits: MO5601 or (MO5151 and MO5152)

a minimum of a further 40 (and a maximum of 80) credits chosen from EH5003, MO5023, MO5935;

if necessary, a further 40 credits chosen from EH5003, GE5051, (MO5223 or MO5023), MO5161, MO5602, MO5603, MO5604, MO5605, MO5606, MO5609, MO5613

### **MLitt:**

120 credits as for the Taught Element plus EH5099

### **MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

## Compulsory modules:

| EH5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                      |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Environmental History MLitt Postgraduate Programme |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.                    |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                                  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr J Clark  |               |                  |            |

## EITHER:

| MO5601 History in the Making: Theories, Approaches and Practice  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| The module brings together material from a range of historical approaches in order to provide an interdisciplinary module that will function as a satisfactory introduction to history and historiography for students interested in all branches of historical study. Its combination of substantive and historiographical material enables the module to be used as a free-standing guide for those humanities students who are not based in History but who wish to take an elective module in the subject. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Environmental History Postgraduate Programme.<br>MO5601 or MO5801 compulsory for Modern History Postgraduate Programme.<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1.5-hour weekly seminars.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr E Hart  |               |                  |            |

OR:

| MO5151 Global Times - Plural Spaces 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This core module for the MLitt in Transnational and Spatial History offers a strong foundation in the major approaches to comparative and transnational history as well as the emerging field of spatial history. This module introduces the origins of these new ways of looking at the past, as well as some of the major methodological challenges faced. The focus then shifts to consider transnational agents, networks, and new approaches to doing history between the micro and macro scales. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Transnational, Global and Spacial History Postgraduate Programme.<br>Optional for Environmental History Postgraduate Programme |               |                  |   |
| <b>Required for:</b>   | MO5152  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly 2-hour seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Lawson   |               |                  |   |

AND

| MO5152 Global Times - Plural Spaces 2  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This core module for the MLitt in Transnational and Spatial History offers a strong foundation in the major approaches to comparative and transnational history as well as the emerging field of spatial history. This module explores a variety of understandings of spatial history, including the idea of mental maps, the study of landscapes, places of memory and spatial practices. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Transnational, Global and Spacial History Postgraduate Programme.<br>Optional for Environmental History Postgraduate Programme |               |                  |   |
| <b>Pre-requisite(s):</b>   | MO5151  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly 2-hour seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Lawson   |               |                  |   |

Choose at least one of:

| <b>EH5003 Environmental History: Nature and the Western World (1800 - 2000)</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module studies environmental history over the past two centuries in an international context. It examines attitudes to nature and animals, species history (extinctions and introductions), national parks and nature reserves, the history of environmentalism and nature conservation, the history of countryside recreation and tourism, and the history of current problems such as pollution and pesticide use. It will draw on examples taken from the USA, southern Africa, Australasia and Great Britain. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Environmental History, Modern Historiography Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar, fortnightly tutorial.                              |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Clark  |               |                  |   |

| <b>MO5023 Disease and Environment (c.1500 - c.2000)</b>  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| Before they are members of political and religious groupings, humans are biological entities. As such, throughout history humans have had to devise complex strategies to cope with fundamental biological factors. Focusing primarily upon an Anglo-American context, this course examines the manner in which sickness and death have shaped human history - both biologically and culturally - over the past 500 years. Consideration of patients' and practitioners' expectations, and of the changing meanings of cure, treatment, and care, encourages students to appreciate changing attitudes to health, hygiene, healing and illness within the social history of medicine. Moreover, through an examination of medical practitioners, hospitals, quarantine, inoculation, imperialism, urbanisation, and industrialisation, students will gain an appreciation of the historical relationships between the environment and disease. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Environmental History Postgraduate Programme.                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorial and other teaching as appropriate. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Clark   |               |                  |   |

| <b>MO5935 Charles Darwin and the Politics of Progress in the Natural World</b>   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| The nineteenth century was the self-proclaimed age of progress. Consequently, it was an age obsessed with time, an age obsessed with origins. And just as human experience - human perfectibility - had become historicised, so too had nature. Natural history had become the history of nature. Drawing upon the rich primary and secondary sources generated by the 'Darwin industry', this module examines progressive developmentalism and evolutionary theories in the nineteenth century. Specifically, it considers the religious, political and social implications of a belief in a constantly changing world, governed by natural laws. |  |               |                  |            |
| <b>Programme module type:</b>  | Optional for Environmental History Postgraduate Programme.                     |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorial and other teaching as appropriate. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr J Clark   |               |                  |            |

Further optional credits from the following if necessary:

| EH5003 Environmental History: Nature and the Western World (1800 - 2000)  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module studies environmental history over the past two centuries in an international context. It examines attitudes to nature and animals, species history (extinctions and introductions), national parks and nature reserves, the history of environmentalism and nature conservation, the history of countryside recreation and tourism, and the history of current problems such as pollution and pesticide use. It will draw on examples taken from the USA, southern Africa, Australasia and Great Britain.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Environmental History, Modern Historiography Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar, fortnightly tutorial.                              |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Clark  |               |                  |   |

Either

| MO5023 Disease and Environment (c.1500 - c.2000)  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>Before they are members of political and religious groupings, humans are biological entities. As such, throughout history humans have had to devise complex strategies to cope with fundamental biological factors. Focusing primarily upon an Anglo-American context, this course examines the manner in which sickness and death have shaped human history - both biologically and culturally - over the past 500 years. Consideration of patients' and practitioners' expectations, and of the changing meanings of cure, treatment, and care, encourages students to appreciate changing attitudes to health, hygiene, healing and illness within the social history of medicine. Moreover, through an examination of medical practitioners, hospitals, quarantine, inoculation, imperialism, urbanisation, and industrialisation, students will gain an appreciation of the historical relationships between the environment and disease.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Environmental History and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MO5223  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorial and other teaching as appropriate.                            |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Clark  |               |                  |   |

OR

| MO5223 Disease and Environment (c.1500 - c.2000)  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Before they are members of political and religious groupings, humans are biological entities. As such, throughout history humans have had to devise complex strategies to cope with fundamental biological factors. Focusing primarily upon an Anglo-American context, this course examines the manner in which sickness and death have shaped human history - both biologically and culturally - over the past 500 years. Consideration of patients' and practitioners' expectations, and of the changing meanings of cure, treatment, and care, encourages students to appreciate changing attitudes to health, hygiene, healing and illness within the social history of medicine. Moreover, through an examination of medical practitioners, hospitals, quarantine, inoculation, imperialism, urbanisation, and industrialisation, students will gain an appreciation of the historical relationships between the environment and disease.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Environmental History Postgraduate Programme.                     |               |                  |   |
| <b>Anti-requisite(s):</b>   | MO5023   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorial and other teaching as appropriate. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Clark   |               |                  |   |

| MO5161 Skills in Transnational History   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will equip MLitt students with skills necessary for historical research in the twenty-first century. Tailored specifically for students studying transnational, global and spatial history, the course will lead to the acquisition and development of skills in the digital humanities, and/or skills required for using specific historical sources. Students select two mini-modules from a range that includes GIS map-making; digital network analysis; translation; using non-textual sources. The course is distinctive in that it seeks to foster multi-disciplinary expertise among history students – with the aim of developing innovative approaches to the sub-disciplines of transnational, global and spatial history.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Transnational, Global and Spatial History Postgraduate programme.<br>Optional for Environmental History Postgraduate Programme |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 7 x 2-hour seminars and 4 x 2-hour practical classes over the semester.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Lawson   |               |                  |   |

## Interdisciplinary - Environmental History MLitt & MPhil 2015/6 - November 2015

| MO5602 Directed Reading in Modern History  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | <p>Compulsory for The Book: History and Techniques of Analysis and Intellectual History Postgraduate Programmes.</p> <p>Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and Transnational, Global and Spatial History Postgraduate Programmes.</p> |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Team taught   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | By arrangement.   |               |                  |        |

| MO5604 Key Issues in German Historiography  |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>This module is designed to engage with some of the most hotly disputed issues in German history. By focusing on three aspects central to our understanding of the development of modern Germany, students will have an opportunity to tackle some of the most sophisticated and influential writings on German history. Through the study of these controversies students will not only gain an insight into three pivotal concepts in German history but will also be exposed to most major strands in German historiography. While the ability to read German would be an advantage, it is by no means a prerequisite for this module.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Optional for Environmental History and Modern History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars.  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr R Bavaj   |               |                  |        |



## Interdisciplinary - Environmental History - MLitt & MPhil - 2015/6 - November 2015

| MO5605 Themes in American History  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module will enable postgraduate students to tackle at a conceptually advanced level a selection of the most important issues in the history of North America, from its foundations as European colonies onwards. The module will expose students to several key debates in American historiography by focusing on a series of issues that have especially preoccupied scholars in the field.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for Environmental History, Modern History and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr E Hart   |               |                  |        |

| MO5606 Perceptions of Central and Eastern Europe  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Perceptions of Central and Eastern Europe are as diverse as the ethnic and cultural characteristics of the region itself, and have undergone significant transformation since the emergence of modern nationalism in the mid-nineteenth century. As the Mitteleuropa of German imperial aspirations gave way to the successor states of the Versailles settlement, then to Soviet-dominated Eastern Europe in a polarised Cold War continent, and, most recently, to the post-Communist "return to Europe", the correspondingly evolving views from the periphery, from Germany and Russian, and from within the region itself offer a rich and challenging subject for advanced historical study.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Central and East European Studies, Environmental History, Modern History and Transnational, Global and Spatial History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T Kamusella   |               |                  |   |

## Interdisciplinary - Environmental History MLitt & MPhil 2015/6 - November 2015

| MO5609 Directed Reading in Modern History 2  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and The Book. History and Techniques of Analysis Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Team taught  |               |                  |   |

| MO5613 History of Modern Science  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Science and technology are key elements of modernity, and, of course, they have a history. This module will introduce students to core themes in the history of science from the Scientific Revolution onwards. Students will read a mixture of primary and secondary sources, and will be challenged to think about changes over time in such issues as: the definition and cultural status of 'science'; the status and role of its practitioners; the motivations for the pursuit of natural knowledge; the methods employed for making and communicating knowledge; and the spaces and sites of knowledge production and communication. Sessions will usually be co-taught by members of staff who bring different perspectives, cases and period-expertise to the discussion.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Early Modern History, Environmental History, Intellectual History and Modern History Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Fyfe  |               |                  |   |

## School of Medicine

### Masters in Global Health Implementation

#### Programme Requirements

*Taught Element:*

120 credits from Compulsory modules: MD5201 - MD5210, SS5103, SS5104

**MSc:**

120 credits from the Taught Element, plus MD5299 (60-credit Research Project module)

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

#### Compulsory Modules - Semester 1:

| MD5201 Issues in Global Health   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module will serve as an introduction to key issues within global health, that complements other semester 1 modules and provides the basis for topics covered in semester 2 modules. The module is split into three broad themes: 1. defining global health 2. approaches to global health and 3. evidence in global health. Students will be required to engage with social media as a means of acquiring and disseminating global health knowledge. Assessment will comprise peer- and self-assessment, a self-selected mid-semester assignment, and a self-selected end-of-semester assignment. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Global Health Implementation                               |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour lecture (x 10 weeks), 2-hour tutorial (x 10 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D J Williams  |               |                  |   |
| <b>Lecturer(s):</b>  | various  |               |                  |   |

## Interdisciplinary - MSc Global Health Implementation - 2015/6 - November 2015

| MD5202 Principles in Implementation Science  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module will identify principles underpinning implementation science ('the study of methods to promote the integration of research findings and evidence into healthcare policy and practice', NIH Fogarty Institute) and make use of a range of experiences and case studies from diverse global settings. More specifically, the module will consider the mandates and functioning of authorities and providers undertaking implementation. Furthermore, it will examine how policies are framed and work through to the level of service delivery in specific contexts covering public and non-government sectors, as well as within communities. Assessment will include peer-assessment, a mid-semester assignment, and an end-of-semester assignment.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Global Health Implementation                               |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture (x 10 weeks), 2-hour tutorial (x 10 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Issberner and Prof W Stones   |               |                  |   |
| <b>Lecturer(s):</b>  | various  |               |                  |   |

| MD5203 Ten Global Health Problems  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module will consider a range of health problems that represent the diversity of the issues that affect most of the world's population. It will examine the impact of these problems and consider what interventions may be implemented to reduce the associated morbidity and mortality. Knowledge from the module will be gained through a series of "master-classes" delivered by experts in their fields, complimented by student-led discussion sessions. Assessment will take the form of weekly assignments (written and oral) pertaining to that weeks' subject matter.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Global Health Implementation                               |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour lecture (x 11 weeks), 2-hour tutorial (x 11 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr W Dhaliwal  |               |                  |   |
| <b>Lecturer(s):</b>  | various  |               |                  |   |

| SS5104 Quantitative Research in Social Science  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 1.00 - 4.00 pm Mon  |               |                  |   |
| <p>This module provides a user-friendly introduction to the fundamental concepts of quantitative analysis. It will cover underlying principles, terminology, research design, sampling strategies, uncertainty and missing data, computerised data management and analysis and univariate and multivariate approaches to data analysis. The assessment will be in the form of weekly practical tasks completed in class and/or independently.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Global Health Implementation                    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour combined lecture and practical session. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Leahy  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Mr P L Gardner  |               |                  |   |

### Compulsory Modules - Semester 2:

| MD5205 Inequalities and Inequities in Global Health   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module will address inequalities and inequities in health, as they relate to race, gender, nationality, geography, and poverty, in the context of global injustice. The module is split into three broad themes: 1. Conceptualising health inequalities and inequities 2. Causes and consequences of health inequalities and inequities and 3. Addressing health inequalities and inequities. Students will be required to engage with social media as a means of acquiring and disseminating knowledge on issues of global justice. Assessment will comprise peer- and self-assessment, a self-selected mid-semester assignment, and a self-selected end-of-semester assignment.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Global Health Implementation                               |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour lecture (x 10 weeks), 2-hour tutorial (x 10 weeks) |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof C Currie and Dr J Inchley   |               |                  |   |
| <b>Lecturer(s):</b>   | various  |               |                  |   |

## Interdisciplinary - MSc Global Health Implementation - 2015/6 - November 2015

| MD5206 Evidence Synthesis for Global Health Policy, Programming, and Practice  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module will serve as an introduction to forms of evidence synthesis and its implications for global health policy, programming, and practice. The module will also address issues regarding study design and critical appraisal. Assessment will take the form of regular assignments assessing critical appraisal skills, peer/self-assessment, and an end-of-semester assignment. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Global Health Implementation  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour lecture (x 8 weeks), 3-hour practical classes (x 3 weeks), 2-hour tutorial (x 11 weeks) |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D J Williams   |               |                  |   |
| <b>Lecturer(s):</b>  | various   |               |                  |   |

| SS5103 Qualitative Methods in Social Research  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am - 11.00 am Fri (provisional)        |               |                  |   |
| This seminar-based module offers both a theoretical and practical introduction to the collection, analysis and writing of qualitative social science research. Among other things, the module will cover positionality/ethics, archives, participant observation, participatory approaches, semi-structured interviewing and the use of NVIVO/computer aided qualitative data analysis. Assessment will involve a short reflection on field experience and a longer critical essay on a chosen aspect of qualitative research. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Global Health Implementation |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                           |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Leahy                                  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Kesby and various others               |               |                  |   |

[Further module - Globalisation and Health - details to follow](#)

**Compulsory Modules - Whole Year:**

| MD5299 Dissertation in Global Health Implementation  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| <p>This module involves undertaking a dissertation on a self-selected topic. One of a variety of formats can be selected, including but limited to: primary and secondary data projects, evidence synthesis, programme proposal et cetera. Supervisors can be any one of the full range of MSc staff drawn from across the university. Assessment will take the form of a thesis, oral and poster presentations, and reflective account.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for MSc in Global Health Implementation                        |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 25 hours of contact with supervisor over the year. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr D J Williams   |               |                  |            |
| <b>Lecturer(s):</b>  | various   |               |                  |            |

## Masters in Health Psychology

### MSc:

120 credits :MD5001, MD5002, MD5003, MD5004, MD5090

60 credits: PS5003, PS5005

### Compulsory modules Semester 1:

| MD5001 Theories of Health Psychology and Behaviour Change   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module will consist of the knowledge base that covers the context and perspectives of health psychology including an historical overview and current theories and approaches in health psychology. It will include an awareness of other related disciplines, and acknowledgement of social and cultural factors. Theoretical models of health behaviour and behaviour change will be introduced including associated health-related beliefs and cognitions. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Health Psychology Postgraduate Programme. |               |                  |   |
| <b>Co-requisite(s):</b>   | MD5002  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures and a 2-hour tutorial.        |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%              |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof G Humphris   |               |                  |   |

| MD5002 Quality of Life, Communication and Chronic Illness   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This core module will contain the knowledge base for understanding the conceptual underpinnings of the quality of life field and its importance in generating a debate about the success of health care interventions, assessment of care and definitions of health and illness. The relevance of psychological issues to the person suffering acute and chronic illness will be covered and the important role of communication processes in the interface between patient, clinical staff and care-givers will be included as a key theme. Some practical observation of clinical-related communication processes will be an additional feature of this module. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Health Psychology Postgraduate Programme.       |               |                  |   |
| <b>Co-requisite(s):</b>   | MD5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures, a 2-hour tutorial and a practical. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%                    |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Laidlaw  |               |                  |   |



**Compulsory modules Semester 2:**

| <b>MD5003 Biological Systems and Development</b>   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This core module will introduce the importance of biological and developmental systems to the understanding of people's perceived and actual health status including methods of assessing health behaviour and intervening to change health behaviour. This module will consist of learning a generalisable tool to analyse and pool the effects of interventions, namely meta-analysis. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Health Psychology Postgraduate Programme.       |               |                  |   |
| <b>Pre-requisite(s):</b>   | MD5001, MD5002  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures, a 2-hour tutorial and a practical. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                    |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Cecil  |               |                  |   |

| <b>MD5004 Health Information Prevention and Decision Making</b>  |   |                         |                  |   |
|--|---|-------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11           | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |                         |                  |   |
| This core module introduces the student to the expanding field of health information and decision making. Members of the public, whether they are patients or not are bombarded with health information and mis-information, via various media, from which they may process and make decisions about entering or remaining in the health care system, or embarking on new health or self care interventions designed to improve outcome. Students will acquire understanding on how to assess the influence of these interventions through detailed examination of a mixture of theoretical and practical steps. |   |                         |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc in Health Psychology Postgraduate Programme.       |                         |                  |   |
| <b>Pre-requisite(s):</b>   | MD5001, MD5002, PS5003  | <b>Co-requisite(s):</b> | PS5005           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures, a 2-hour tutorial and a practical. |                         |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                    |                         |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Ozakinci   |                         |                  |   |

## Interdisciplinary - Health Psychology MSc - 2015/6 - November 2015

| PS5005 Methods of Data Analysis in Psychology  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 12.00 noon Mon  |               |                  |   |
| This module aims to ensure that students are competent in the use of advanced data analysis in psychology. This includes advanced training in common statistics (including regression, analysis of variance and multivariate techniques) plus additional training in qualitative methods. Students will also study more complex topics such as statistical modeling. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Psychology                                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 11 x 3-hour workshops plus optional tutorials. |               |                  |   |
| <b>Assessment pattern:</b>   | 5 elements of Coursework = 100% (SUBJECT TO APPROVAL)                 |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Bowman   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Bowman and Dr N Tausch   |               |                  |   |

### Compulsory modules Whole Year:

| PS5003 Generic Research and Professional Skills in Psychology  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |            |
| This module introduces students to the various skills and issues that are of importance to academic psychologists irrespective of their particular area of research. Weekly seminars will cover the various topics, such as academic presentations (published writing, talks, posters), the use of technology in order to enhance communication, how to read research reports, how to gain ethical approval for research, and how to build an academic career. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for MRes in Psychology.                    |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 17 x 2-hour seminars.          |               |                  |            |
| <b>Assessment pattern:</b>   | 4 elements of Coursework = 100% (SUBJECT TO APPROVAL) |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr W Li   |               |                  |            |

| MD5090 Research Project in Health Psychology  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| The dissertation will consist of a written report of original, empirical health psychology research, up to 5,000 words in length. It will consist of an appropriate literature review, statement of aims, methods, results, discussion and conclusion sections with supporting bibliography. The project will be supervised and receive ethical approval. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for MSc in Health Psychology Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.                  |               |                  |            |
| <b>Assessment pattern:</b>  | Project report (Dissertation) = 100%                            |               |                  |            |
| <b>Module Co-ordinator:</b>   | Prof G Humphris   |               |                  |            |

## Masters in Intellectual History

Programme Coordinator: Prof Richard Whatmore

### **Taught Element:**

80 credits: IH5001 - IH5003

40 credits: MO5602

### **MLitt:**

120 credits as for the Taught Element plus MO5099

### **MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

## Compulsory modules:

| IH5001 Current Controversies in Intellectual History  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module enables students to scrutinise central historiographical disputes that continue to determine the nature and practice of intellectual history. The aim is to provide students with a detailed knowledge of the text and the controversy that it generated, with a view to providing the student with the skills to understand and evaluate the arguments presented in the best work in intellectual history published in recent years. The themes include topics drawn from the following list (the topics taught each year will depend upon discussion of what the most important topics of controversy are): John Pocock: Machiavellian moments; The decline and fall of states; Quentin Skinner: Liberty and liberalism; The Concept of Liberty; Reinhart Koselleck: Crisis and revolution; Franco Venturi: Utopia and Reform; Leo Strauss: Ancients and moderns; Istvan Hont: Commercial society and the jealousy of trade; Richard Sher: Enlightenment and the book; Michael Sonenscher: Enlightenment and revolution; Knud Haakonssen: Natural law and natural rights; Michel Foucault: Madness and civilisation; John Dunn: Democracy and rationality; Richard Tuck: Philosophy and government;; Lorraine Daston: Reason, wonder and nature; Eugene Genovese: Slavery and the southern tradition; Jonathan Rose: Intellectual life of the working classes; Steven Shapin and Simon Schaffer: Hobbes, Boyle and the experimental life; James Secord: Natural history of creation.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Intellectual History Postgraduate Programme.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof R Whatmore   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof R Whatmore, Prof C Kidd, Prof R Mason, Dr J Rose, Dr R Cox, Dr R Bavaj, Dr A Fyfe, Dr J Harris |               |                  |   |

## Interdisciplinary - Intellectual History MLitt & MPhil - 2015/6 - November 2015

| IH5002 Turning Points in the History of Ideas  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module is concerned with periods of history when there was rapid and turbulent intellectual and philosophical change. The module studies the nature of the change through the works of the authors involved in the transformation of thought and through seminal commentaries upon them. Students will acquire knowledge of how and why ideas change and of the consequences of such change. They will be encouraged to place ideas in their historical context, and to reflect upon the reasons for intellectual change and the broader reception and subsequent understanding of transformative philosophies. Themes include: Plato/Aristotle and the origins of Western philosophy; Cynics, Stoics and Sceptics; Morality and Empire at Rome; Reason and religion: Christianity and barbarism; Local and global law: the example of Rome; Machiavellianism and amoral philosophy; Commercial society and the passions and the interests; Shaping character: the idea of education; 'Gentle' commerce and perpetual peace; The Jealousy of trade and international relations; Civil science and the concept of liberty; Natural slavery and natural rights; Socialism and utopia; Civilization and democracy; Equality and capitalism.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Intellectual History Postgraduate Programme.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof R Whatmore  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof R Whatmore, Prof C Kidd, Prof R Mason, Dr J Rose, Dr R Cox, Dr R Bavaj, Dr A Fyfe, Prof L Hutson, Dr T Jones, Dr J Harris, Prof N Rengger, Prof A Lang, Prof P Hayden |               |                  |   |

| IH5003 The Theory and Practice of Intellectual History  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module introduces the student to the methods of intellectual history through a historical overview of the actual practice of intellectual history with special emphasis on the methodological debates of the last half century. Particular attention is paid to the "Cambridge School" of intellectual historians (Laslett, Pocock, Dunn, Skinner et al.), set against the backdrop of contributions to intellectual history by Michel Foucault in France, Reinhart Koselleck in Germany, Franco Venturi in Italy, and the pragmatists in America. This is complemented by case studies of explanation and understanding in intellectual history, including the challenge of post-modernism and Straussianism among others. Through these, the variety of intellectual history in philosophy, political theory, literature, science, economics and theology is illustrated.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Intellectual History Postgraduate Programme.                   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1.5-hour seminars.                                     |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof R Whatmore   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof R Whatmore, Prof C Kidd, Prof R Mason, Dr J Rose, Dr A Fyfe, Dr J Harris |               |                  |   |

## Interdisciplinary - Intellectual History MLitt & MPhil - 2015/6 - November 2015

| MO5602 Directed Reading in Modern History  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | Either |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module offers a directed reading project designed to encourage the development of skills of historical analysis through concentrated study of a topic chosen by the student. The project offers the student the opportunity to develop skills of research, analysis and presentation prior to the dissertation. As such, it will serve as a useful transition between the more structured teaching which characterises undergraduate work and the independence of postgraduate dissertations. The project will generally take the form of a bibliographical essay or primary research on a narrowly defined topic, but the guidelines are sufficiently flexible to accommodate new developments in learning and information dissemination.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | <p>Compulsory for The Book: History and Techniques of Analysis and Intellectual History Postgraduate Programmes.</p> <p>Optional for Central and East European Studies, Early Modern History, Environmental History, Modern History, Reformation Studies and Transnational, Global and Spatial History Postgraduate Programmes.</p> |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr J Clark  |               |                  |        |

## Masters in Management and Information Technology

### Programme Requirements

*Taught Element, and PG Diploma in Management and Information Technology:*

120 credits:

- 40 credits from: MN5424, MN5461, MN5470, MN5471
- up to 20 further credits from MN5424, MN5461, MN5470, MN5471, or other modules from MN5000 - MN5999 (for exclusions see individual modules)
- IS5101
- remaining credits from IS5102 - IS5150, CS5001 - CS5089, ID5059

#### **MSc:**

120 credits from Taught Element, plus IS5188 or IS5189

#### **MPhil in Information Technology with Management:**

120 credits from Taught Element of Management and Information Technology plus a 40,000-word thesis

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules for MSc:

| IS5101 Masters Core Skills  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This module equips students with essential skills for completing an MSc in the School of Computer Science. Topics include: technical writing for Computer Science and Information Technology; use of bibliographic and referencing software; presentation skills; critical analysis of written work; generic research skills including framing research hypotheses, designing and conducting experiments, use of survey tools and gathering, analysing and presenting data; understanding basic statistics; use of project planning techniques; awareness of professional and ethical issues in research activities; carrying out a literature review; and awareness of what constitutes academic misconduct. Skills in these areas are reinforced through practical assignments. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for all Postgraduate Programmes except Erasmus Mundus Dependable Software Systems. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.                   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |            |

**EITHER**

| IS5188 Group Project and Dissertation in Management and Information Technology  |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | SUMMER |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |        |
| <p>This module is a group-based MSc project on an approved topic in Management and Information Technology which shows appropriate competences in both fields. It results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, an account of how Information Technology was used in the project, critical analyses and evaluation of the findings. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work.</p> |   |               |                  |        |
| <b>Programme module type:</b>   | Either IS5188 or IS5189 is compulsory for Management and Information Technology MSc Postgraduate Programme. |               |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc and permission of the Head of School                                 |               |                  |        |
| <b>Anti-requisite(s):</b>   | IS5189  |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meetings with supervisor.  |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |        |

**OR**

| IS5189 Dissertation in Management and Information Technology  |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Summer |
| <p>This module is an individually supervised MSc project on an approved topic in Management and Information Technology which shows appropriate competences in both fields. The project results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, an account of how Information Technology was used in the project, critical analyses and evaluation of the findings. Students are required to give a presentation of their work.</p> |   |               |                  |        |
| <b>Programme module type:</b>   | Either IS5188 or IS5189 is compulsory for Management and Information Technology MSc Postgraduate Programme. |               |                  |        |
| <b>Pre-requisite(s):</b>  | Admission to dissertation phase of MSc and the consent of the Head of School                                |               |                  |        |
| <b>Anti-requisite(s):</b>   | IS5188  |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Meeting with supervisor.   |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |        |

**Compulsory modules - 2 of MN5424, MN4261, MN5470, MN5471:**

| <b>MN5424 Corporate Finance and Accounting</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The module will introduce students to the basic principles and practices of accounting and corporate finance. The first half of the module will concentrate on teaching students financial accounting and reporting via the accounting equation method; this will enable students to become familiar with accounting techniques and develop an understanding of financial statements and methods employed in their creation. The second half of the module will introduce corporate finance concepts such as capital structure, the CAPM, and investment appraisal techniques. The module will employ case studies to highlight to students how these principles are employed within industry; the case studies will be based in an international setting.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Management Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MN5422  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Ms L Stevenson  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Ms L Stevenson  |               |                  |   |

| <b>MN5461 Strategic Management</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>Over the last three decades one of the most significant global trends has been the rapid technical development of information technology and the parallel intensification in the commercial and administrative use of this technology by organisations. In this context this module will develop students' knowledge and understanding of the strategy process and develop an appreciation of organisational responses to the rapidly changing global economy. In addition to this, the module will develop a critical understanding of the challenges of operating in the information age and will also develop awareness of the range of approaches to organisational strategy; its purpose and the process of aligning corporate strategy with operational strategies in the knowledge economy. The module will challenge students to evaluate organisational processes, including marketing and promotion, logistics and supply chain management, in a rigorous manner and develop an understanding as to how organisational resources can be harnessed to respond to the organisational challenges of operating in an age of rapidly and easily accessible information.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the Management Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour lecture and a 1-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Keenan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr P Keenan   |               |                  |   |



## MSc Management and Information Technology - 2015/6 - November 2015

| MN5470 Managing Human Resources  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Academic year:</b>  | 2015/6   |               |                  |   |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module reviews the key theoretical and practical aspects involved in managing human resources. The module content covers both the strategic and operational requirements necessary to secure, develop, reward and retain employees and to ensure their maximum contribution to organisational performance requirements. Individual, organisational and contextual factors that influence the management of people are also considered and throughout there is an emphasis on the critical, analytical and evaluative study of the subject.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Management and Human Resource Management Postgraduate Programmes.<br>Optional for Management and Information Technology Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Baluch, Mr M J Dowling  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Baluch, Mr M J Dowling, Dr A Timming  |               |                  |   |

| MN5471 Marketing: Principles and Practice  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Academic year:</b>  | 2015/6  |               |                  |   |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>Marketing is a pervasive social phenomenon, influencing our perceptions and behaviours. We are all in daily contact with the marketing activities of firms, governments and a range of other organisation sand we have all observed and experienced aspects of marketing practice throughout our daily lives. Adopting primarily a managerial perspective, this module will offer a critical review of current theory and practice and look at how marketing is evolving in light of changes to the business context. This module will introduce students to the nature and scope of marketing and its role in society. The importance of identifying, understanding and satisfying customers will be highlighted and approaches to segmenting markets and identifying target market swill be reviewed. Marketing activities will be considered within the context of the marketing mix and other managerially-determined variables. The importance of marketing research and the associated processes will be discussed.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Management Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr W Barlow   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr W Barlow   |               |                  |   |

Optional modules - Management:

| MN5311 Responsible Investment   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module provides students with an in- depth knowledge of Responsible Investment, which integrates Environmental, Social and Governance (ESG) issues into investment-decision making. The module explores a wide-range of topics including: the definition and identification of relevant Environmental, Social and Governance (ESG) data; portfolio screening and shareholder advocacy and performance evaluation; and responsible risk management.</p> <p>The module also explores advanced topics such as: carbon markets: responsible investment in real estate, hedge funds and private equity; philanthropy &amp; impact investing.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x 1-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Bouslah  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr K Bouslah  |               |                  |   |

| MN5401 International Marketing   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module essentially involves the critical study of International Marketing. Key theories are examined carefully against the backdrop of questions such as: What is an International Marketing Strategy? How is it developed? What role does it fulfil in the organisation? The module will examine the macro and micro factors that influence and affect International Marketing. It is designed to equip students with the necessary skills to make Marketing decisions in a global context.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Fernie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Fernie  |               |                  |   |

| MN5421 Managing People in Global Markets   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module focuses on the management of human resources in global markets and will help participants understand the problems of managing people in an international/multinational context. One of the most important trends in the development of modern economies is the increased globalisation of business. Notwithstanding its economic and social impact, however, globalisation is having a significant impact on how we manage people, not only in multinational enterprises but in our indigenous companies as, increasingly, we borrow ideas on "best practice" from overseas. Such efforts at globalisation, whilst generally successful in bringing economic success, have been fraught with problems, which are often the consequence of ethnocentric management teams and their attempts to export US-style "best practice" human resource management to other countries. Thus, it is critically important for globalising firms to make sensible and contextually-sensitive decisions in key areas of human resource management, which take into account institutional, cultural and psychological differences between parent company institutions, values and practices, those of host countries and those of third country nationals employed to work in global organisations. These decisions usually concern such areas as how people are organised, recruited, selected, deployed, developed, motivated, compensated and how their performance is managed. They also focus on whether or not global organisations employ uniform human resource practices in their various locations throughout the world. Ultimately, effective international human resource management (IHRM) rests on a thorough understanding of the problems of managing people from different backgrounds and this module attempts to explore such problems in-depth and help students apply their understanding to practical managerial situations.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Timming   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Timming, Mr M J Dowling   |               |                  |   |

## MSc Management and Information Technology - 2015/6 - November 2015

| <b>MN5501 Scenario Thinking and Strategy</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The aim of the module is to use the scenario process to understand how individuals can engage with uncertainty in operating environments in order to develop creative and robust strategies. In addition, the module will make use of the scenario process to integrate a number of important organisational development concepts that help to provide organisations with future vision and adaptability: imagination; action learning; narratives and 'storying'; competencies and dynamic capabilities; reflective strategic consulting; reflexive practices.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for International Business and Strategy Postgraduate Programme.<br><br>Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof B Mackay  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof B Mackay  |               |                  |   |

| <b>MN5510 Entrepreneurship, Innovation and Creativity</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>Entrepreneurship is often taught within the context of new venture creation. This module takes an alternative approach and will consider the entrepreneur opportunity locus, the role of creativity, exploitation of change and source &amp; application of innovation. It will provide insight into the nature and identity of entrepreneurship by critically analysing the way entrepreneurial activity creates economic wealth/social value; and will impart an understanding of individual entrepreneurship, corporate entrepreneurship and social entrepreneurship. This module will draw on case studies from the creative industries such as Syco Entertainment, Delfont Macintosh and Les Miserables; and firms such as Apple, Nokia and Google. It will consider the corporate culture and the organisation of entrepreneurial firms and enable students to consider career paths, and engagement with entrepreneurs.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 2 seminars.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Mr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Mr C Lovatt   |               |                  |   |

## MSc Management and Information Technology - 2015/6 - November 2015

| MN5511 Leadership in Organisations   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine how views of leadership have changed since the Industrial Revolution, from mechanistic, behavioural models of behaviour to modern leadership frameworks which facilitate change in ever dynamic national, international and cultural climates. Emphasis will be on how theoretical models relate to real life scenarios, how leaders are selected and how leadership is assessed. Content combines conceptual knowledge, behavioural guidelines and other information demonstrated by examples and case studies, experiential exercises and feedback on skill utilisation and performance. Lectures and seminars will combine a variety of educational approaches, from interactive discussions to action learning, with a focus on students' own individual leadership development.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar, 1 practical class.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Romenska   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Romenska   |               |                  |   |

| MN5513 Ethics, Organisations and Management  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module develops students' understanding of the ethical issues surrounding management and organisations. The module is arranged around five core themes, representing the practical problems that face managers and organisations: How should we understand capitalism? What is the purpose of a corporation? Can managers be moral beings? Can markets be ethical? How should wealth be distributed? We approach these themes from philosophical, sociological, and organisational perspectives, developing students' understanding of the issues through theoretical analysis, case studies and extensive discussion. As these and similar questions are addressed, students will be encouraged to reflect and draw upon their own experiences of organisational life as issues are analysed, challenged, researched, evaluated and assessed.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Mansell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Mansell, Dr P Roscoe  |               |                  |   |

| MN5515 Entrepreneurship and Business Development  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Successful creation of a new venture requires the conception of a robust, sustaining and growth oriented business model. This module involves the practical conception of such a business model and development of an actionable business plan that, taken together, constitutes a coherent and fully integrated plan for a viable, for-profit, enterprise. Students will collaborate to design a business model and then plan for a start-up business based on that model. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management.                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour lectures (x 11 weeks), 3-hour practical classes (x 7 weeks) |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Lovatt   |               |                  |   |

| MN5554 Marketing and Society  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module examines the effects of marketing on societies. The powerful social and cultural influence of marketing has been widely recognised. Through branding and communication marketing shapes consumption, identity and relationships. Our appearance, ideas and behaviour are influenced by marketing in ways more subtle and pervasive than we might think. What we eat, drink and wear; where we live and how we travel; our work and leisure; even the most intimate details of our lives respond to the powers of marketing. The future of marketing is challenged by the negative connotations of globalisation. Actions by certain firms have caused strong reactions to negative effects on workers, consumers and environments, such that a plethora of anti-corporate protest movements has been mobilised in recent decades. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management but not available to the Banking and Finance Postgraduate programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Ms J F Brooks  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Ms J F Brooks  |               |                  |   |

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| MN5560 Creative Marketing Communications   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Advertising is a permeating creative presence in developed economies, and an important, evolving part of organisations' marketing activities and integrated marketing communications programmes. The module aims to develop your understanding of advertising as an element in the integrated marketing communications mix, of how the advertising creative and planning process is practiced and managed, and the range of contemporary issues affecting decision-making in this dynamic environment. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr W Barlow   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr W Barlow, Dr K Myrseth   |               |                  |   |

| MN5603 Responsibility, Sustainability and Accountability in Organisations  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module provides an introduction to and analysis of sustainability and corporate social responsibility, the meaning, tensions and conflicts that these concepts entail and the role that accountability can play in their achievement. The module will examine the theory and practice of social, environmental and sustainability accountability and explore and assess current experience. The module will critically but practically examine the claims made by international business in this field and explore the practical and political constraints on the organization as it seeks to address responsibility, sustainability and accountability. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MRes in Management Studies, and all other Postgraduate Programmes in the School of Management except Banking and Finance. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J Bebbington  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J Bebbington  |               |                  |   |

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| MN5604 Financial Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>Financial systems around the world are currently undergoing many changes. These changes arise from competition, consolidation, information technology, product and geographic expansion of manufacturing, service and financial services firms, de-regulation and re-regulation. These changes are taking place within a volatile and uncertain economic environment, and have direct implications for the development, growth and stability of financial systems. This module aims to outline the fundamentals of financial systems. A central theme running through the module is the influence of technology and innovation along with the challenges that this poses to regulators.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Chronopoulos  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr D Chronopoulos  |               |                  |   |

| MN5607 International Financial Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>From daily financial management to long term strategic decision making, a full understanding of international finance is essential for all business managers. This module begins with the international monetary frameworks and the conduct of monetary policies in major developed economies. An essential feature of international finance is the crucial role of foreign exchange rate when cross-border transactions and capital flows occur. The determination and forecast of exchange rates and their interdependence with interest rates is discussed, together with the international money and capital markets and capital flows. Recent decades saw an explosion of new derivative products to hedge risks and an understanding of basic derivatives such as options and future/forward is required of the modern business manager.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr X Chen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr X Chen  |               |                  |   |



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| MN5608 Risk Management  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The last two decades have witnessed a spectacular change and growth in financial markets (equity markets, foreign exchange markets, euromarkets and international bond markets). This has brought a new breed of investors that see the role of managers as enhancing their shareholder value and protecting their wealth from potential risk. One of the challenging tasks of managers in recent years has been to manage the exposure to risks that arises from corporate decisions. The 1980s witnessed a resurgence of mergers, acquisitions and take-overs. This brought about new ways of financing such activities with project evaluation, funding and hedging have to be considered together. The principal aim of this module is to provide an introduction to managing the exposure to risk and to apply relevant theories to realistic financial decision problems. This module will also deal with assessing and measuring non-financial risks and their importance in the decision making processes within the firm.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Peralias  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Peralias  |               |                  |   |

| MN5611 Alternative Investment  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an overview on investment opportunities alternative to the main equity and bond markets. It will critically engage students with the key characteristics and issues concerning the main alternative investment opportunities, these being Commodities, Private Equity, Real Estate and especially Hedge Funds. Furthermore, this module will introduce students to the newer alternative investments which include Investibles (e.g. wine and collectibles), Islamic Investment and Responsible Investment. This module will consider the key challenges of evaluating alternative investment portfolios' performance.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practicals.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah   |               |                  |   |

| MN5821 Managing Non-Governmental Organisations  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Non-Governmental Organisations (NGOs) occupy distinctive roles within society, economy, and polity. Situating these organisations within their different historical and international settings, this module goes on to examine the strategic challenges face by NGOs today. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, as well as the Sustainable Development MSc Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour lectures  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Woolvin  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Woolvin  |               |                  |   |

**Optional modules - Information Technology:**

| <b>CS5001 Object-Oriented Modelling, Design and Programming</b>  |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | Variable  |                      |                        |   |
| This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Advanced Computer Science, Artificial Intelligence, Human Computer Interaction, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems Postgraduate Programmes.<br>Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |                      |                        |   |
| <b>Anti-requisite(s):</b>  | CS5002  | <b>Required for:</b> | CS5011, CS5021, CS5031 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.   |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| <b>CS5002 Programming Principles and Practice</b>  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Variable   |                      |                  |   |
| This module introduces computational thinking and problem solving skills to students who have no or little previous programming experience. It covers general programming concepts used in the development of software applications, such as data structures, functions, choice, iteration, recursion and input/output. An easy-to-learn programming language is used to illustrate these concepts, and programming skills are reinforced through practical assignments. |  |                      |                  |   |
| <b>Programme module type:</b>  | Either CS5002 or CS5001 is compulsory for Computing and Information Technology Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS5001   | <b>Required for:</b> | CS5003           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

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| CS5003 Masters Programming Projects   |   |                           |                  |   |
|---|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Variable  |                           |                  |   |
| This module reinforces key programming skills gained in CS5002, by means of a series of coursework assignments posed as small programming projects. These are designed to offer increasing depth and scope for creativity as the module progresses. |   |                           |                  |   |
| <b>Programme module type:</b>   | Compulsory for Computing and Information Technology Postgraduate Programme. |                           |                  |   |
| <b>Pre-requisite(s):</b>  | CS5002  | <b>Anti-requisite(s):</b> | IS5108           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, tutorials and practical classes.           |                           |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |                           |                  |   |

| CS5010 Artificial Intelligence Principles  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |                      |                  |   |
| This module covers foundational knowledge of Artificial Intelligence (AI). The module gives an overview of AI and its philosophy. It covers fundamental principles in AI: logical reasoning, reasoning in the presence of uncertainty, and machine learning. It shows how search is used to solve a variety of problems in AI. Notions such as agency and uncertainty in AI are covered. Finally, the philosophy of AI in practice and the philosophical problems in AI are shown. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>  | CS3105   | <b>Required for:</b> | CS5011           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5011 Artificial Intelligence Practice   |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module covers practical design and implementation of Artificial Intelligence (AI). It provides grounding in AI technique, covering techniques in the areas of AI reasoning, planning, doing, and learning. Finally, it is shown how to implement AI ideas in software and how to evaluate such implementation. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for Artificial Intelligence Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>   | CS5001, CS5010   | <b>Required for:</b> | CS5012, CS5019   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

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| CS5012 Language and Computation  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module covers the major aspects of natural language processing and speech understanding, including computational syntax, computational semantics, discourse processing, machine translation and speech recognition. |   |               |                  |   |
| <b>Programme module type:</b>  | Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme.<br>Optional for Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3052 or CS5010  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5021 Advanced Networks   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                  |   |
| This module looks forward to new concepts and topics in networking, and also reviews key abstractions including layered models, protocols and Internet architecture, and key concerns such as reliability, resource utilization and quality of service. Specific networking technologies are used to demonstrate monitoring, measurement and analysis of real traffic. |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Networks and Distributed Systems Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Co-requisite(s):</b>  | CS5001  | <b>Required for:</b> | CS5023, CS5029   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                  |   |

| CS5023 Mobile and Wireless Networks  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module examines how computing and communication are used to allow mobile systems to function in heterogeneous environments, with variations in available network resources and diverse/intermittent network connectivity. A key outcome of the module is for students to be able to critically assess the capabilities and constraints of mobile systems. |  |               |                  |   |
| <b>Programme module type:</b>  | Either CS4103 or CS5023 is compulsory for Networks and Distributed Systems Postgraduate Programmes<br>Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3102 or CS5021   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5030 Software Engineering Principles   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module examines the key concepts in small and large-scale software development. Project management is explored, along with the processes involved in developing system requirements, functionality and high-level descriptions necessary to guide the development of, and assess, a working system. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Required for:</b>   | as co-requisite for CS5031  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5031 Software Engineering Practice   |   |                      |                        |   |
|--|---|----------------------|------------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11        | <b>Semester:</b>       | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |                      |                        |   |
| This module introduces advanced software engineering methods supporting the development of complex, composite software systems with an emphasis on software configuration management, reuse and test-driven development practices. It examines software reuse at different levels of scale, from software libraries and components to service-oriented architectures and discusses how reuse presents both challenges and opportunities for the development of quality software. A key process in today's software engineering practice is testing; the module introduces testing methods that complement the different scales of reuse-oriented development, from unit-level testing to integration testing and system-level testing. Students work on a project to design, implement and test a complex, distributed application to put the content of the lectures into practice. Reference is made to the content of the co-requisite Software Engineering Principles module where appropriate, so that students learn how the practices studied fit into a larger software engineering lifecycle. |   |                      |                        |   |
| <b>Programme module type:</b>  | Compulsory for Software Engineering Postgraduate Programme.<br>Optional for other Postgraduate Programmes in the School of Computer Science |                      |                        |   |
| <b>Co-requisite(s):</b>  | CS5001, CS5030  | <b>Required for:</b> | CS5032, CS5033, CS5039 |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.  |                      |                        |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                        |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |                      |                        |   |

| CS5032 Critical Systems Engineering   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module provides students with an understanding of the concepts and development techniques used for critical, socio-technical systems. On completion they will understand the notion of system dependability, the key characteristics of dependable systems, and the specialised software engineering techniques that may be used to ensure dependable system operation. Students also gain practical experience of applying some of these techniques in systems specification, design or implementation. |  |               |                  |   |
| <b>Programme module type:</b>   | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Weekly lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5033 Software Architecture   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module introduces students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this module, they will: have knowledge of the key elements of software architectures; recognise architectural styles of existing software systems; be able to describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software. |  |               |                  |   |
| <b>Programme module type:</b>  | CS5032 or CS5033 is compulsory for Software Engineering Postgraduate Programme<br>Optional for all other Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Pre-requisite(s):</b>   | CS3051 or CS5031   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| CS5040 Human Computer Interaction Principles and Methods  |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |                      |                  |   |
| This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI. |  |                      |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science |                      |                  |   |
| <b>Anti-requisite(s):</b>   | CS3106   | <b>Required for:</b> | CS5042, CS5044   |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.  |                      |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |                      |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |                      |                  |   |

| CS5041 Interactive Software and Hardware  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Human Computer Interaction Postgraduate Programme. Optional for other Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Pre-requisite(s):</b>  | CS5001  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, practical classes and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |



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| CS5042 User-Centred Interaction Design  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | The module is available to all students enrolled on the MSc Human Computer Interaction Programme. A quota for other students may be necessary due to lab equipment constraints, in which case preference will be given to other MSc students. |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures, 3 practicals and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 85%, Presentation = 15%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| CS5044 Information Visualisation and Visual Analytics   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module provides an introduction to information visualisation and visual analytics. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts.<br>Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments. There are no pre-requisites for this module but students should have basic programming skills (e.g. in Java or JavaScript). |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Computer Science     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks) |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%                             |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5102 Database Management Systems   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces the core principles and techniques required in the design and implementation of database systems. With a focus on relational database management systems, topics include database design theory; E-R modelling; data definition and manipulation languages; database security and administration. There is a significant practical element to the module, which will require students to build and manipulate a database. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5103 Web Technologies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module introduces the principles and techniques involved in the design and implementation of web applications. A web application is a collection of web pages that interact with the user, with each other, and with various resources on a web server, including databases. There is a significant practical element to the module, which will require students to build and manipulate dynamic web pages. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5104 Information Security Management   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module reviews key theoretical and practical aspects of Information Security Management. The module content covers higher-level technical and theoretical issues as well as management issues such as organisational, planning, certification, auditing and governance. From the student's perspective the module introduces students to a topical field of business and IT concern via varied learning styles and in depth consideration of current issues, standards and scenarios. The module uses both block learning and individual self-learning. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Anti-requisite(s):</b>  | CS4203  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 40%, Coursework = 60%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

| IS5105 Network Systems Management  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module looks at the history of computer networks, examines how computer networks function, and surveys emerging and future networking technologies. Networked computer systems are pervasive in every walk of life. Today's mobile phones are more powerful computing devices than the mainframes of thirty years ago. Few organizations could function without computer networks. It gives insights into computer networking from the perspectives of developers, managers and users. Students taking this module will gain a core understanding of networking principles and protocols for wired and wireless networking. They will learn about the main aspects of network systems management, including network monitoring and configuration management, network service management, and firewall management. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

## MSc Management and Information Technology - 2015/6 - November 2015

| IS5106 Green Information Technology  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces students to a variety of topics and technologies in the area of Green IT and Sustainable IT. Students investigate the way in which technology contributes towards global emissions as well as its potential to enable a positive sustainable future. This includes the responsibilities and actions of IT users, as well as service providers. The module covers key factors driving Green IT from a technical, political, financial, social and legal perspective, and includes the IT life cycle, approaches to product design and the provision of IT services. Students gain understanding and insight into current issues related to sustainable IT usage and future development.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars and tutorials                    |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%                         |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| IS5108 Information Technology Projects   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module reinforces information technology and project management skills gained during semester 1, by means of a selection of coursework assignments posed as information technology projects. These are designed to offer increasing depth and scope for creativity as the module progresses.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Computer Science |               |                  |   |
| <b>Anti-requisite(s):</b>  | CS5003   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practical classes           |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

| ID5059 Knowledge Discovery and Datamining  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| <p>Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes.<br>Compulsory for Applied Statistics and Datamining Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>  | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

## Masters in Mediaeval Studies

### **Taught Element:**

40 credits: MS5001

40 credits: (MS5021 + MS5022) or MS5028 or Arabic or Greek language modules at the level appropriate to the student's level of proficiency.

20 - 40 credits: MS5025/ME5012, MS5026, MS5027 or 40 credits from MS5024, plus one Italian language module at the level appropriate to the student's level of proficiency (if Arabic or Greek is not taken),

### **MLitt:**

120 credits as for the Taught Element plus MS5099

### **MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Compulsory Modules:

| <b>MS5001 Approaches to Mediaeval Studies</b>  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| The module is structured thematically in order to cover a range of themes essential to understanding multi-disciplinary approaches to the Middle Ages. Each seminar will explore a broad issue from a variety of disciplinary and theoretical perspectives, using selected texts, images and artifacts to anchor discussion. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Mediaeval Studies Postgraduate Programme |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | Fortnightly tutorial and other teaching as appropriate. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%                                       |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr A Woolf  |               |                  |            |

| <b>MS5099 Dissertation for MLitt Programme/s</b>  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                  |               |                  |            |
| A 15,000 word interdisciplinary dissertation, to be written under the supervision of teaching staff, who will advise on the choice of subject and provide guidance throughout the research process. To be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Mediaeval Studies MLitt Postgraduate Programme |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | Individual supervision.                                       |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%                              |               |                  |            |

Optional Modules:

| <b>ME5012 Sources and Source Criticism (20)</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module addresses interpretation and criticism of mediaeval sources. A taught core in semester one concentrates upon a selected central body of documentation and its associated problems and introduces appropriate skills training. This is completed in semester two by an extended paper, together with training in seminar presentation and discussion skills. Students taking this module as a 20 credit option in the MLitt in Mediaeval Studies will complete only the taught core in semester one. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Mediaeval Studies Postgraduate Programme. (Reported under MS5025) |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | 1.5-hour seminar and individual tutorials as required.                         |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |

| <b>MS5021 Core Language and Text Skills 1 (Greek, Italian or Arabic)</b>                                |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.                                       |               |                  |   |
| An optional module providing an introduction to one of the core languages for studying the Middle Ages. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Mediaeval Studies Postgraduate Programme |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | 1 seminar each week.                                  |               |                  |   |
| <b>Assessment pattern:</b>  | Pass/Fail   |               |                  |   |

| <b>MS5022 Core Language and Text Skills 2 (Greek, Italian or Arabic)</b>                                |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| An optional module providing an introduction to one of the core languages for studying the Middle Ages. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Mediaeval Studies Postgraduate Taught Programme |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | 1 seminar each week.   |               |                  |   |
| <b>Assessment pattern:</b>  | Pass/Fail  |               |                  |   |

| <b>MS5023 An Introduction to Palaeography with Codicological and Manuscript Studies</b>  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |            |
| This hands-on, practical, source-based module is designed to equip the student to tackle the reading, transcription and editing of manuscripts up to c.1500. Primarily a practical skills course, class time will concentrate primarily on the actual reading of manuscripts and necessary codicological work, with (e.g.) editing skills being introduced within the context of transcription assignments. Efforts will be made to include work with original sources from the Library's collections, which are of relevance to special subjects and/or dissertation. |   |               |                  |            |
| <b>Programme module type:</b>  | Optional for Mediaeval Studies Postgraduate Programme |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | 1 seminar and 1 practical each week.                  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%                                     |               |                  |            |

| <b>MS5024 Mediaeval Language</b>   |   |               |                  |                      |
|--|---|---------------|------------------|----------------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 & 2 (taught twice) |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |                      |
| An optional module providing an introduction to one mediaeval language. Grounding in the grammar of and translation from the language will be acquired with the help of grammar exercises and translation practice on original texts. The aim is to get all students to an acceptable level of proficiency in reading and translation. Sufficient prior knowledge of the language to embark on the module at an appropriate level may be requested. Time and students' linguistic expertise permitting, some literary contextualisation of the texts studied and translated may also be included. The languages normally available include, Middle Scots, Old Norse, Old English, Mediaeval French and Middle High German. |   |               |                  |                      |
| <b>Programme module type:</b>  | Optional for Mediaeval Studies Postgraduate Programme |               |                  |                      |
| <b>Learning and teaching methods and delivery:</b>   | 2-hour seminar.                                       |               |                  |                      |
| <b>Assessment pattern:</b>   | Coursework = 100%                                     |               |                  |                      |

| <b>MS5025 Discipline Skills</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |   |
| This is a specialised module introducing students to one particular discipline within mediaeval studies. This can either be mediaeval art history, mediaeval English literature, mediaeval French language and literature, mediaeval German language and literature, mediaeval history, or mediaeval Italian literature. Both students already familiar with the discipline and newcomers are welcome. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Mediaeval Studies Postgraduate Programme |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | 2-hour seminar.                                       |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                                     |               |                  |   |

## Interdisciplinary - Mediaeval Studies MLitt & MPhil - 2015/6 - November 2015

| MS5026 Directed Reading in Mediaeval Studies 1   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |   |
| This module is a detailed study of a Mediaeval topic of the student's own choice taught by tutorials with one or more colleagues in the participating Schools. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Mediaeval Studies Postgraduate Programme |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                                     |               |                  |   |

| MS5027 Directed Reading in Mediaeval Studies 2   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |   |
| This module is a detailed study of a Mediaeval topic of the student's own choice taught by tutorials with one or more colleagues in the participating Schools. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Mediaeval Studies Postgraduate Programme |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                                     |               |                  |   |

| MS5028 Latin for Mediaeval Studies   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |            |
| This module provides an introduction to Latin language for the study of the Middle Ages. |   |               |                  |            |
| <b>Programme module type:</b>  | Optional for Mediaeval Studies Postgraduate Programme |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>                                       | 1 seminar.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%                                     |               |                  |            |

## School of International Relations

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **Postgraduate Diploma:**

**Terrorism and Political Violence (full time mode) [\(link\)](#)**

**Terrorism and Political Violence (distance learning mode) [\(link\)](#)**

#### **MLitt:**

**International Political Theory [\(link\)](#)**

**International Security Studies [\(link\)](#)**

**Middle Eastern and Central Asian Security Studies [\(link\)](#)**

**Peace and Conflict Studies [\(link\)](#)**

**Terrorism and Political Violence (full time mode) [\(link\)](#)**

**Terrorism and Political Violence (distance learning mode) [\(link\)](#)**

#### **MPhil:**

**International Political Theory [\(link\)](#)**

**International Security Studies [\(link\)](#)**

**Middle Eastern and Central Asian Security Studies [\(link\)](#)**

**Peace and Conflict Studies [\(link\)](#)**

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*



## Masters in International Political Theory

### *Taught Element, and PG Diploma:*

60 credits: IR5401, IR5402

60 credits: from IR5004 - IR5095, IR5403 - IR5449, IR5526 - IR5528, IR5721 - IR5749

### **MLitt:**

120 credits from the Taught Element plus IR5099

### **MPhil:**

120 credits from the Taught Element, 30 credits from IR5601, plus a thesis of not more than 40,000 words.

## Compulsory modules:

| IR5401 Texts in International Political Theory   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 4.00 pm Tue   |               |                  |   |
| This module begins by examining the concept of 'international theory' as it has developed within International Relations since 1945 and introduces students to the broader idea of international political thought. The main body of the module consists of close readings and analysis of classic texts in the field, ranging from Hobbes' Leviathan and Burke's Letters on a Regicide Peace to Waltz's Man, the State and War and Rawls' Law of Peoples. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for International Political Theory Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.                               |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr V Paipais  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof P Hayden, Prof A Lang, Dr V Paipais, Prof N Rengger, Dr G Slomp  |               |                  |   |

| IR5402 Analysis and Interpretation in International Political Theory  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Thu   |               |                  |   |
| This module introduces students to the methods and interpretive approaches that can be taken in the study of international political theory. It surveys a range of approaches to critical analysis, each examined through the work of prominent representatives, and considers questions regarding the conceptual, historical and normative interpretation of political theory texts. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for International Political Theory Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars.                               |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof A Lang   |               |                  |   |

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| IR5099 Dissertation for MLitt Programme/s   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 5.00 pm - 6.00 pm Wed  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for International Political Theory, International Security Studies, Middle East, Caucasus and Central Asian Security Studies and Peace and Conflict Studies MLitt Postgraduate Programmes<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr J Murer   |               |                  |            |

### Compulsory for MPhil:

| IR5601 Research Methods in international Relations   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |            |
| This is a required module for all MRes, PhD and MPhil students in the School of International Relations. It is designed to assist students in understanding the purpose and approaches of international relations scholarship, and to assist them in developing and carrying out their research. As such, it addresses a range of topics, from the history and philosophy of the social sciences to specific research methods. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the completion of the MRes, PhD and MPhil Programmes in the School of International Relations. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr V Paipais  |               |                  |            |

**Optional modules:**

| IR5007 Terrorism and Liberal Democracy  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm Tue  |               |                  |   |
| <p>This module addresses: conceptual and definitional issues concerning terrorism; the relationship of terrorism to other forms of political violence; the origins, dynamics and development of contemporary terrorism; the efficacy of terrorism as a political weapon; the dilemmas and challenges of liberal democratic state responses to terrorism; and case studies in terrorism and counter-terrorism. The module is convened by Professor Richard English, and is taught by Professor Richard English, Professor Louise Richardson, Professor Bruce Hoffman, Dr Rashmi Singh, and Dr Javier Argomaniz, together with other specialist colleagues from the Handa Centre for the Study of Terrorism and Political Violence (CSTPV) and the School of International Relations.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Terrorism and Political Violence, International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes |               |                  |   |
| <b>Required for:</b>  | IR5999   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5-hours (1-hour lecture and 1.5-hour seminar).  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof R English   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Various  |               |                  |   |

| IR5029 Conflict and Peace in Post-Communist Eurasia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 1.00 pm - 3.00 pm Thu  |               |                  |   |
| <p>This module examines where and why conflicts have arisen throughout the post-communist space, Eurasia, particularly in the Balkans, Caucasus and Central Asia, and the contrasting forms these conflicts have taken. It also considers cases that were expected to but did not explode into violence, as well as ones where preventive measures appear to have succeeded. It gives comparative attention to the roles of major states, intergovernmental organisations and non-governmental organizations have played in moderating, preventing and resolving these conflicts, and considers alternative scenarios.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Middle Eastern and Central Asian Security Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture and 1-hour seminar.                                      |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B Teles Fazendeiro  |               |                  |   |

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| IR5030 Religion and International Politics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Tue   |               |                  |   |
| <p>This module explores the so-called 'global resurgence' of politicised religion, moving out from traditional studies of church-state relations in the West to selected case studies of religio-political interactions in the wider world. After an examination of various theoretical approaches to politics and religion emanating from both sociology and the study of international relations, the focus will be on themes - such as religion and the state, the nation, the international system, religious violence and peacemaking - and on cases - such as the role of the New Christian Right in the United States, political Islam, religious nationalism in the Indian sub-continent, or religious contributions to democratisation in Latin America. The use of specific themes and cases may vary from year to year, depending upon current developments in this area.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Security Studies Postgraduate Programme.<br>Optional for Peace and Conflict Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J P Anderson  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J P Anderson and Dr F McCallum  |               |                  |   |

| IR5033 Identity and Collective Violence  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed   |               |                  |   |
| <p>This module examines the concept of violence as a group or collective phenomenon. It explores the various manifestations of violence in its physical, structural, and symbolic forms, and explores the psychological motivations that promote or inhibit violence. Students will closely examine a series of events, both historical and contemporary, which are variously described as motivated by conflicts of ethnicity, class, race or clan membership. Students will explore the processes by which enemies are identified and maintained; how collectivities define their membership, and whether reconciliation after a violent conflict is possible. The module approaches the analysis of these conflicts from a multidisciplinary perspective.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Security Studies and other Postgraduate Taught Programmes within the School of International Relations. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Murer   |               |                  |   |

| IR5039 Political Economy of Conflict  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Tue   |               |                  |   |
| <p>This module provides a political economy perspective on conflict in a developing economy, introducing concepts and theoretical approaches of political economy and their application to situations involving conflict and violence. Economic arguments for a 'resource curse' and the explanatory binary of 'greed versus grievance' are interrogated and challenged for the absence of political, hence political economic, contextualisation and analysis. The complex network of commodities and goods traded between developed and developing economies are explored through a series of case studies and the increased securitisation of development in the twenty-first century is examined.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory, International Security Studies, Peace and Conflict Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr W B Vlcek  |               |                  |   |

| IR5042 Gender and Terrorism   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Thu (time to be confirmed)  |               |                  |   |
| <p>This module aims to familiarise the students with how gender is a social construction that privileges certain actors over and against others. Bluntly, gender, similarly to race and class, is a tool for the construction and maintenance of power. The process of 'gendering' expects different actions and grants different agency to particular actors based upon their biological sex. This often reflects a power differential which has historically (and continues) to privilege men and masculinised subjects over women and feminised subjects. This has a significant impact on International Relations and thus Terrorism Studies. Gender also affects the way that we construct and conceive of actors—groups and individuals—who use political violence.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory, International Security Studies, Peace and Conflict Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture and 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C E Gentry   |               |                  |   |

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| IR5050 Strategic Studies  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Mon  |               |                  |   |
| <p>The aim of this module is to discuss the major shifts and developments in modern strategic thought and practice, as well as some of the powerful factors that determined and are still determining military possibilities in the modern era. We will examine historical case studies and the reasons for changes in the use and application of military force along two axes: chronological and thematic. Starting from the Second World War, we will analyse the evolution of strategic thought and practice in response to political, technological, cultural and other developments. The combination of historical analysis and thematic issues will allow students to develop a more comprehensive picture of the evolution of strategy as well as better understanding and informed critique of major strategic trends and challenges of recent and contemporary history.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory, International Security Studies, Peace and Conflict Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof H Strachan   |               |                  |   |

| IR5057 The Evolution of United Nations Peacekeeping  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00am - 12.00 noon Tue  |               |                  |   |
| <p>This module is concerned with the development of United Nations peacekeeping from the 1940s to the present. After exploring the pre-UN origins of the concept, the growing prominence of peacekeeping (paralleling the "failure" of the UN's original plans for a comprehensive system of collective security) will be examined. The role of peacekeeping in the management of "brushfire" conflicts in the years of cold war and decolonization will be traced with reference to specific operations. The focus will then shift to the great quantitative and qualitative changes of the post-cold war period and the emergence of the so-called "new peacekeeping". The module will conclude with consideration of possible future trajectories for UN military intervention.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Taught Programmes in International Relations. (TO BE CONFIRMED) |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar (x 11 weeks)  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr N MacQueen   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr N MacQueen   |               |                  |   |

| IR5059 Political Order and Violence in the Middle East   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module examines the causes and consequences of political order and violence in the Middle East. What constitutes a political order? Why and how are political orders established? What role does violence play in constituting political orders? Why and how does violence ensue with the breakdown of political orders? Drawing on IR, Sociological, and State-formation theories, we will examine different episodes of order and violence in contemporary Middle East politics: from the collapse of the Ottoman Empire to the latest Arab Uprisings, looking at colonial orders, regime-society violence, violent resistance against occupation, and civil wars.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate programmes in the School in International Relations.  |               |                  |   |
| <b>Anti-requisite(s):</b>  | IR4601  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 seminar.                                     |               |                  |   |
| <b>Assessment pattern:</b>   | Take-home Written Examination = 40%, Coursework (Essay 50%, Presentation 10%) = 60% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Saouli   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Saouli   |               |                  |   |

| IR5403 Political Philosophy and World Order  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module discusses philosophical reflections on the idea of world order through a study of certain key texts of political philosophy, selected each year from an approved list. This will consist of some Roman and Greek texts (e.g. Thucydides, History, Lucretius De Rerum Natura) some medieval Christian texts (e.g. Augustine, De Civitate Dei, Dante, De Monarchia), some modern texts (e.g. Hegel, Philosophy of History) and some twentieth century texts (for example, Voegelin, Order and History, Santayana, Dominations and Powers). These texts would be bracketed by a general methodological and philosophical introduction and a concluding discussion of the implications of these readings.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof N J H Rengger  |               |                  |   |

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| IR5412 'Reason of State': Origin, Nature and Career of a Concept   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm - 5.00 pm Thu  |               |                  |   |
| The module examines the meaning, origins, development, and significance of the notion of 'reason of state' in western political thought. It explores the differences between 'reason of state', 'national interest', 'public interest' and 'common interest'. It engages with a variety of writers from different centuries (e.g. Aristotle, Cicero, Tacitus, John of Salisbury, Machiavelli, Althusius, Botero, Fichte, Morgenthau, Gramsci, Schmitt, Foucault). It encourages students to demonstrate their grasp of the concept by explaining how it works in contemporary global politics. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Slomp   |               |                  |   |

| IR5413 Topics in International Political Thought: Hannah Arendt   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Students in the MLitt in IPT have first choice in entering this module. After IPT students' needs have been filled, it will be open to students in other MLitt |               |                  |   |
| <b>Planned timetable:</b>   | 1.00 pm - 3.00 pm Thu  |               |                  |   |
| This module introduces students to key themes in the international realm through a close engagement with the ideas of a single theorist. This year's seminar will focus on the work of Hannah Arendt. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory and other Postgraduate Programmes within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100% (2 x 3,000-word essay = 50% each)  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P Hayden  |               |                  |   |

| IR5415 Ideologies and Social Movements in the Middle East   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Students in the MLitt in IPT have first choice in entering this module. After IPT students' needs have been filled, it will be open to students in other MLitt |               |                  |   |
| <b>Planned timetable:</b>   | 10.00 am - 12.00 noon Wed  |               |                  |   |
| This module examines prominent ideologies in the modern history of the Middle East, and the role ideas play in the political mobilisation of society. The module draws particular attention to anti-colonial, nationalist, religious and liberal social movements; it compares the formation, implementation and evolution of the different sets of ideologies, and the relationships between the social movements and the state. The module aims to a) deepen students' understanding of ideologies in the region, beyond culturalist and power-political frameworks, and b) to highlight the important role of societal forces in Middle East politics. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of International Relations.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours of seminars (x 11 weeks), 1-hour tutorial (x 11 weeks), 2 office consultation hours (x 12 weeks)                                |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Gani  |               |                  |   |



| IR5527 Conflicts, Security and Democracy in the Greater Caucasus (30)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Wed   |               |                  |   |
| <p>This module examines one of the world's most fascinating yet least understood regions. The Caucasus are rich in history, languages and culture, having developed as the crossroads between three great empires, the Ottoman, Persian and Russian. It is also a region riven by conflicts and remains of geopolitical importance to world powers, not least for reasons of energy. The module gives particular attention to the sources of the many wars in the Caucasus; the failed efforts to solve them; and the divergent interests there of such actors as Turkey, Iran, Russia, the United States and the EU.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Middle East and Central Asian Security Studies Postgraduate Programme and other Postgraduate Programmes within the School of International Relations. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof R Fawn  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof R Fawn  |               |                  |   |

| IR5528 Social Movements, Revolutions and Authoritarianism in North Africa  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module examines the dynamics and outcomes of social protests in the authoritarian regimes of North African region in the post-colonial period. It aims to describe the structural and inter-subjective features of democratic, authoritarian and revolutionary change, and to locate them in vis-à-vis the evolution of regional politics and of the international system. It describes the specificities and dilemmas of authoritarian and democratic governance in each polity with a particular focus on the developments of the last decade (post-2001). It examines in details the relationship between the state and social movements within the larger context of processes of political and economic liberalisation as well as regional (north-south) integration.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Middle East and Central Asia Security Studies and all other Postgraduate Programmes in the School. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr F Volpi  |               |                  |   |

**International Relations - PG International Political Theory - 2015/6 - November 2015**

| <b>IR5728 Foreign Policy Analysis</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Thu  |               |                  |   |
| <p>This module covers the literature, research topics, and current issues in the area of foreign policy analysis – a significant subfield within the study of international relations. Research in this area is designed to answer the question: Why do states do what they do in international politics? The module is organised in a basic "levels of analysis" framework that roughly corresponds to the historical development of the study of foreign policy analysis – from outside, 'external' approaches associated with general international relations theories, to societal sources of culture and public opinion, to government organization and elite decision-making. An emphasis will be given to decision-making approaches to foreign policy, with a particular focus on psychological dimensions. The political psychology of foreign policy decision-making has become a dominant area of research in foreign policy analysis and offers a unique, complimentary perspective to an understanding of international relations. The emphasis in the course is on theories of foreign policy, as well as bridging from theories to practice. Students will also be exposed to the substance/content of the foreign policies of various countries.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Security Studies Postgraduate Programme and other Postgraduate Programmes within the School. |               |                  |   |
| <b>Anti-requisite(s):</b>  | IR5035  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar (x 11 weeks) 1 x 2-hour practical class (during semester)                         |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Beasley  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Beasley  |               |                  |   |

## Masters in International Security Studies

### Also Postgraduate Diploma

**Taught Element, and PG Diploma:**

60 credits: IR5001 and IR5036

60 credits: from IR5004 - IR5095, IR5403 - IR5449, IR5526 - IR5528, IR5721 - IR5749

**MLitt:**

120 credits from the Taught Element plus IR5099

**MPhil:**

120 credits from the Taught Element, 30 credits from IR5601, plus a thesis of not more than 40,000 words.

### Compulsory modules:

| IR5001 International Security  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| This module introduces students to important issues and significant debates in security studies. We begin by examining the nature of war, strategy, and alliances. We then analyze the structure and impact of military power, including both conventional and nuclear weapons. We then probe the causes of interstate war, from domestic politics to the structure of the state system, to bargaining models. Finally, we turn to domestic conflict and delve into the dynamics of insurgency, counterinsurgency, and peacekeeping. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for International Security Studies Postgraduate Programme.         |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 40%, Midterm Examination = 20%, Coursework = 40% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M De Vore, Dr K Harkness   |               |                  |   |

| IR5036 Critical Security Studies   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | Lecture: 10.00 am - 11.00 am Mon, Tutorials: one of 1.00 pm - 2.00 pm, 2.00 pm - 3.00 pm or 3.00 pm - 4.00 pm Tue     |               |                  |   |
| This module will examine the challenge to traditional conceptions of security presented by the emergence of Critical Security Studies since the end of the Cold War. Students will explore what it means to study the concept and practice of security from a critical perspective. They will examine the various theoretical traditions that have informed critical security studies and the methodological implications for the analysis of different types of security contexts, ranging from alliance relations, terrorism, the environment, migration, famine, etc. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for International Security Studies<br>Optional for other Postgraduate Taught Programmes within the School. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture and 1-hour tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Gentry and Dr C Ogden  |               |                  |   |

## International Relations - PG International Security Studies - 2015/6 - November 2015

| IR5099 Dissertation for MLitt Programme/s   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 5.00 pm - 6.00 pm Wed  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for International Political Theory, International Security Studies, Middle East, Caucasus and Central Asian Security Studies and Peace and Conflict Studies MLitt Postgraduate Programmes<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr J Murer   |               |                  |            |

### Compulsory for MPhil:

| IR5601 Research Methods in international Relations   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |            |
| This is a required module for all MRes, PhD and MPhil students in the School of International Relations. It is designed to assist students in understanding the purpose and approaches of international relations scholarship, and to assist them in developing and carrying out their research. As such, it addresses a range of topics, from the history and philosophy of the social sciences to specific research methods. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the completion of the MRes, PhD and MPhil Programmes in the School of International Relations. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr V Paipais  |               |                  |            |

Optional modules:

| IR5007 Terrorism and Liberal Democracy  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm Tue  |               |                  |   |
| <p>This module addresses: conceptual and definitional issues concerning terrorism; the relationship of terrorism to other forms of political violence; the origins, dynamics and development of contemporary terrorism; the efficacy of terrorism as a political weapon; the dilemmas and challenges of liberal democratic state responses to terrorism; and case studies in terrorism and counter-terrorism. The module is convened by Professor Richard English, and is taught by Professor Richard English, Professor Louise Richardson, Professor Bruce Hoffman, Dr Rashmi Singh, and Dr Javier Argomaniz, together with other specialist colleagues from the Handa Centre for the Study of Terrorism and Political Violence (CSTPV) and the School of International Relations.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Terrorism and Political Violence, International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes |               |                  |   |
| <b>Required for:</b>  | IR5999   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5-hours (1-hour lecture and 1.5-hour seminar).  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof R English   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Various  |               |                  |   |

| IR5029 Conflict and Peace in Post-Communist Eurasia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 1.00 pm - 3.00 pm Thu  |               |                  |   |
| <p>This module examines where and why conflicts have arisen throughout the post-communist space, Eurasia, particularly in the Balkans, Caucasus and Central Asia, and the contrasting forms these conflicts have taken. It also considers cases that were expected to but did not explode into violence, as well as ones where preventive measures appear to have succeeded. It gives comparative attention to the roles of major states, intergovernmental organisations and non-governmental organizations have played in moderating, preventing and resolving these conflicts, and considers alternative scenarios.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Middle Eastern and Central Asian Security Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture and 1-hour seminar.                                      |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B Teles Fazendeiro  |               |                  |   |

| IR5030 Religion and International Politics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Tue   |               |                  |   |
| <p>This module explores the so-called 'global resurgence' of politicised religion, moving out from traditional studies of church-state relations in the West to selected case studies of religio-political interactions in the wider world. After an examination of various theoretical approaches to politics and religion emanating from both sociology and the study of international relations, the focus will be on themes - such as religion and the state, the nation, the international system, religious violence and peacemaking - and on cases - such as the role of the New Christian Right in the United States, political Islam, religious nationalism in the Indian sub-continent, or religious contributions to democratisation in Latin America. The use of specific themes and cases may vary from year to year, depending upon current developments in this area.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Security Studies Postgraduate Programme.<br>Optional for Peace and Conflict Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J P Anderson  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J P Anderson and Dr F McCallum  |               |                  |   |

| IR5033 Identity and Collective Violence  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed   |               |                  |   |
| <p>This module examines the concept of violence as a group or collective phenomenon. It explores the various manifestations of violence in its physical, structural, and symbolic forms, and explores the psychological motivations that promote or inhibit violence. Students will closely examine a series of events, both historical and contemporary, which are variously described as motivated by conflicts of ethnicity, class, race or clan membership. Students will explore the processes by which enemies are identified and maintained; how collectivities define their membership, and whether reconciliation after a violent conflict is possible. The module approaches the analysis of these conflicts from a multidisciplinary perspective.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Security Studies and other Postgraduate Taught Programmes within the School of International Relations. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Murer   |               |                  |   |

| IR5039 Political Economy of Conflict  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Tue   |               |                  |   |
| <p>This module provides a political economy perspective on conflict in a developing economy, introducing concepts and theoretical approaches of political economy and their application to situations involving conflict and violence. Economic arguments for a 'resource curse' and the explanatory binary of 'greed versus grievance' are interrogated and challenged for the absence of political, hence political economic, contextualisation and analysis. The complex network of commodities and goods traded between developed and developing economies are explored through a series of case studies and the increased securitisation of development in the twenty-first century is examined.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory, International Security Studies, Peace and Conflict Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr W B Vlcek  |               |                  |   |

| IR5042 Gender and Terrorism   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | Thu (time to be confirmed)  |               |                  |   |
| <p>This module aims to familiarise the students with how gender is a social construction that privileges certain actors over and against others. Bluntly, gender, similarly to race and class, is a tool for the construction and maintenance of power. The process of 'gendering' expects different actions and grants different agency to particular actors based upon their biological sex. This often reflects a power differential which has historically (and continues) to privilege men and masculinised subjects over women and feminised subjects. This has a significant impact on International Relations and thus Terrorism Studies. Gender also affects the way that we construct and conceive of actors—groups and individuals—who use political violence.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory, International Security Studies, Peace and Conflict Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture and 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C E Gentry   |               |                  |   |

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| IR5050 Strategic Studies  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Mon  |               |                  |   |
| <p>The aim of this module is to discuss the major shifts and developments in modern strategic thought and practice, as well as some of the powerful factors that determined and are still determining military possibilities in the modern era. We will examine historical case studies and the reasons for changes in the use and application of military force along two axes: chronological and thematic. Starting from the Second World War, we will analyse the evolution of strategic thought and practice in response to political, technological, cultural and other developments. The combination of historical analysis and thematic issues will allow students to develop a more comprehensive picture of the evolution of strategy as well as better understanding and informed critique of major strategic trends and challenges of recent and contemporary history.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory, International Security Studies, Peace and Conflict Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof H Strachan   |               |                  |   |

| IR5057 The Evolution of United Nations Peacekeeping  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00am - 12.00 noon Tue  |               |                  |   |
| <p>This module is concerned with the development of United Nations peacekeeping from the 1940s to the present. After exploring the pre-UN origins of the concept, the growing prominence of peacekeeping (paralleling the "failure" of the UN's original plans for a comprehensive system of collective security) will be examined. The role of peacekeeping in the management of "brushfire" conflicts in the years of cold war and decolonization will be traced with reference to specific operations. The focus will then shift to the great quantitative and qualitative changes of the post-cold war period and the emergence of the so-called "new peacekeeping". The module will conclude with consideration of possible future trajectories for UN military intervention.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Taught Programmes in International Relations. (TO BE CONFIRMED) |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar (x 11 weeks)  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr N MacQueen   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr N MacQueen   |               |                  |   |



| IR5059 Political Order and Violence in the Middle East   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module examines the causes and consequences of political order and violence in the Middle East. What constitutes a political order? Why and how are political orders established? What role does violence play in constituting political orders? Why and how does violence ensue with the breakdown of political orders? Drawing on IR, Sociological, and State-formation theories, we will examine different episodes of order and violence in contemporary Middle East politics: from the collapse of the Ottoman Empire to the latest Arab Uprisings, looking at colonial orders, regime-society violence, violent resistance against occupation, and civil wars.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate programmes in the School in International Relations.  |               |                  |   |
| <b>Anti-requisite(s):</b>  | IR4601  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 seminar.                                     |               |                  |   |
| <b>Assessment pattern:</b>   | Take-home Written Examination = 40%, Coursework (Essay 50%, Presentation 10%) = 60% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Saouli   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Saouli   |               |                  |   |

| IR5403 Political Philosophy and World Order  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module discusses philosophical reflections on the idea of world order through a study of certain key texts of political philosophy, selected each year from an approved list. This will consist of some Roman and Greek texts (e.g. Thucydides, History, Lucretius De Rerum Natura) some medieval Christian texts (e.g. Augustine, De Civitate Dei, Dante, De Monarchia), some modern texts (e.g. Hegel, Philosophy of History) and some twentieth century texts (for example, Voegelin, Order and History, Santayana, Dominations and Powers). These texts would be bracketed by a general methodological and philosophical introduction and a concluding discussion of the implications of these readings.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof N J H Rengger  |               |                  |   |

## International Relations - PG International Security Studies - 2015/6 - November 2015

| IR5412 'Reason of State': Origin, Nature and Career of a Concept   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm - 5.00 pm Thu  |               |                  |   |
| The module examines the meaning, origins, development, and significance of the notion of 'reason of state' in western political thought. It explores the differences between 'reason of state', 'national interest', 'public interest' and 'common interest'. It engages with a variety of writers from different centuries (e.g. Aristotle, Cicero, Tacitus, John of Salisbury, Machiavelli, Althusius, Botero, Fichte, Morgenthau, Gramsci, Schmitt, Foucault). It encourages students to demonstrate their grasp of the concept by explaining how it works in contemporary global politics. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Slomp   |               |                  |   |

| IR5413 Topics in International Political Thought: Hannah Arendt   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Students in the MLitt in IPT have first choice in entering this module. After IPT students' needs have been filled, it will be open to students in other MLitt |               |                  |   |
| <b>Planned timetable:</b>   | 1.00 pm - 3.00 pm Thu  |               |                  |   |
| This module introduces students to key themes in the international realm through a close engagement with the ideas of a single theorist. This year's seminar will focus on the work of Hannah Arendt. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory and other Postgraduate Programmes within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100% (2 x 3,000-word essay = 50% each)  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P Hayden  |               |                  |   |

| IR5415 Ideologies and Social Movements in the Middle East   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Students in the MLitt in IPT have first choice in entering this module. After IPT students' needs have been filled, it will be open to students in other MLitt |               |                  |   |
| <b>Planned timetable:</b>   | 10.00 am - 12.00 noon Wed  |               |                  |   |
| This module examines prominent ideologies in the modern history of the Middle East, and the role ideas play in the political mobilisation of society. The module draws particular attention to anti-colonial, nationalist, religious and liberal social movements; it compares the formation, implementation and evolution of the different sets of ideologies, and the relationships between the social movements and the state. The module aims to a) deepen students' understanding of ideologies in the region, beyond culturalist and power-political frameworks, and b) to highlight the important role of societal forces in Middle East politics. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of International Relations.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours of seminars (x 11 weeks), 1-hour tutorial (x 11 weeks), 2 office consultation hours (x 12 weeks)                                |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Gani  |               |                  |   |

| <b>IR5527 Conflicts, Security and Democracy in the Greater Caucasus (30)</b>  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Wed   |               |                  |   |
| <p>This module examines one of the world's most fascinating yet least understood regions. The Caucasus are rich in history, languages and culture, having developed as the crossroads between three great empires, the Ottoman, Persian and Russian. It is also a region riven by conflicts and remains of geopolitical importance to world powers, not least for reasons of energy. The module gives particular attention to the sources of the many wars in the Caucasus; the failed efforts to solve them; and the divergent interests there of such actors as Turkey, Iran, Russia, the United States and the EU.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Middle East and Central Asian Security Studies Postgraduate Programme and other Postgraduate Programmes within the School of International Relations. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof R Fawn  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof R Fawn  |               |                  |   |

| <b>IR5528 Social Movements, Revolutions and Authoritarianism in North Africa</b>   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module examines the dynamics and outcomes of social protests in the authoritarian regimes of North African region in the post-colonial period. It aims to describe the structural and inter-subjective features of democratic, authoritarian and revolutionary change, and to locate them in vis-à-vis the evolution of regional politics and of the international system. It describes the specificities and dilemmas of authoritarian and democratic governance in each polity with a particular focus on the developments of the last decade (post-2001). It examines in details the relationship between the state and social movements within the larger context of processes of political and economic liberalisation as well as regional (north-south) integration.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Middle East and Central Asia Security Studies and all other Postgraduate Programmes in the School. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr F Volpi  |               |                  |   |

International Relations - PG International Security Studies - 2015/6 - November 2015

| IR5728 Foreign Policy Analysis   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Thu  |               |                  |   |
| <p>This module covers the literature, research topics, and current issues in the area of foreign policy analysis – a significant subfield within the study of international relations. Research in this area is designed to answer the question: Why do states do what they do in international politics? The module is organised in a basic "levels of analysis" framework that roughly corresponds to the historical development of the study of foreign policy analysis – from outside, 'external' approaches associated with general international relations theories, to societal sources of culture and public opinion, to government organization and elite decision-making. An emphasis will be given to decision-making approaches to foreign policy, with a particular focus on psychological dimensions. The political psychology of foreign policy decision-making has become a dominant area of research in foreign policy analysis and offers a unique, complimentary perspective to an understanding of international relations. The emphasis in the course is on theories of foreign policy, as well as bridging from theories to practice. Students will also be exposed to the substance/content of the foreign policies of various countries.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Security Studies Postgraduate Programme and other Postgraduate Programmes within the School. |               |                  |   |
| <b>Anti-requisite(s):</b>  | IR5035  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar (x 11 weeks) 1 x 2-hour practical class (during semester)                         |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Beasley  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Beasley  |               |                  |   |

## **Masters in Middle East, Caucasus and Central Asian Security Studies**

### **Also Postgraduate Diploma and MPhil**

#### *Taught Element, and PG Diploma:*

30 credits: IR5501

30 credits from Central Asia or Caucasus: IR5510 or IR5029 or IR5058 or IR5527

30 - 40 credits from Middle East: IR5059, IR5115, IR5502, IR5518, IR5519, IR5520, IR5522, IR5523, IR5525, IR5526, IR5528, MH5111

30 - 40 further credits from: IR5029, IR5058, IR5059, IR5502, IR5510, IR5518, IR5519, IR5520, IR5522, IR5523, IR5525, IR5526, MH5111

#### **MLitt:**

120 credits from the Taught Element plus IR5099

#### **MPhil:**

120 credits from the Taught Element, 30 credits from IR5601, plus a thesis of not more than 40,000 words.

### **Middle East, Caucasus and Central Asian Security Studies (Language)**

#### *Taught Element, and PG Diploma:*

30 credits: IR5501

60 credits: from IR5029, IR5115, IR5502, IR5510, IR5518, IR5519, IR5520, IR5522, IR5523, IR5525, IR5526, MH5111.

30 - 40 credits: from a language (chosen from Russian (RU), Arabic (AR) or Persian (PR) language modules at the level appropriate to the student's level of proficiency.

#### **MLitt:**

130 credits from the Taught Element plus IR5099

#### **MPhil:**

130 credits from the Taught Element, 30 credits from IR5601, plus a thesis of not more than 40,000 words.

**Compulsory modules:**

| IR5501 Core in Middle East and Central Asian Security Studies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 1.00 pm - 4.00 pm Tue   |               |                  |   |
| This module focuses on major themes in the study of international security and applies them to the study of the Middle East and Central Asia. These addressed may include war and political violence, nationalism and ethnic conflict, arms control and nuclear proliferation, democratisation and theories of globalisation as they impact on the region (e.g. clash of civilisations). |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Middle East and Central Asian Security Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 seminar.                                       |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%                                    |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof R Fawn / Prof R Hinnebusch   |               |                  |   |

| IR5099 Dissertation for MLitt Programme/s   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 5.00 pm - 6.00 pm Wed  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for International Political Theory, International Security Studies, Middle East, Caucasus and Central Asian Security Studies and Peace and Conflict Studies MLitt Postgraduate Programmes<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr J Murer   |               |                  |            |

**Compulsory for MPhil:**

| IR5601 Research Methods in international Relations   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |            |
| This is a required module for all MRes, PhD and MPhil students in the School of International Relations. It is designed to assist students in understanding the purpose and approaches of international relations scholarship, and to assist them in developing and carrying out their research. As such, it addresses a range of topics, from the history and philosophy of the social sciences to specific research methods. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the completion of the MRes, PhD and MPhil Programmes in the School of International Relations. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr V Paipais  |               |                  |            |

One of:

| IR5029 Conflict and Peace in Post-Communist Eurasia   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 1.00 pm - 3.00 pm Thu  |               |                  |   |
| This module examines where and why conflicts have arisen throughout the post-communist space, Eurasia, particularly in the Balkans, Caucasus and Central Asia, and the contrasting forms these conflicts have taken. It also considers cases that were expected to but did not explode into violence, as well as ones where preventive measures appear to have succeeded. It gives comparative attention to the roles of major states, intergovernmental organisations and non-governmental organizations have played in moderating, preventing and resolving these conflicts, and considers alternative scenarios. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Middle Eastern and Central Asian Security Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1-hour lecture and 1-hour seminar.                                      |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B Teles Fazendeiro  |               |                  |   |

| IR5058 New and Emerging Security Threats in the Caucasus and Central Asia   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am - 12.00 noon Wed  |               |                  |   |
| This module will explore security threats in the Caucasus and Central Asia. The module will cover three Caucasian and five Central Asia states in order to reach a better understanding of the commonalities and differences across the two regions. After an introduction to key theoretical perspectives and topics in security studies, the module will examine specific threats and risks that are currently under-studied in the literature. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Middle Eastern and Central Asian Security Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> -hour lecture and 1-hour seminar.                                       |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Kupatadze   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Kupatadze   |               |                  |   |

| IR5510 Central Asia in Global Politics   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 1.00 pm - 3.00 pm Tue   |               |                  |   |
| <p>Dramatically and unexpectedly, Central Asia was thrust to independence in 1991. Of all the Soviet republics, the five of Central Asia - Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan - had been the largest net recipients of Soviet aid, had benefited most economically from the Soviet Union and had thus been the most reluctant to break from the Soviet empire. Once the path of independence was followed, each of these five states faced considerable ethnic, state, economic, social and foreign policy challenges. This course aims to analyse these nation- and state-building agendas, seeking to address critically some of the now widely held assumptions about this post-Soviet area. Moreover, located in one of the world's most strategic zones, between Russia, China and a troubled Middle East, Central Asia relies on its substantial human and natural resources in the renegotiation of its geopolitical status.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Middle East, Caucasus and Central Asian Security Studies<br>Optional for International Security Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B Teles Fazendeiro   |               |                  |   |

| IR5527 Conflicts, Security and Democracy in the Greater Caucasus (30)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Wed   |               |                  |   |
| <p>This module examines one of the world's most fascinating yet least understood regions. The Caucasus are rich in history, languages and culture, having developed as the crossroads between three great empires, the Ottoman, Persian and Russian. It is also a region riven by conflicts and remains of geopolitical importance to world powers, not least for reasons of energy. The module gives particular attention to the sources of the many wars in the Caucasus; the failed efforts to solve them; and the divergent interests there of such actors as Turkey, Iran, Russia, the United States and the EU.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Middle East and Central Asian Security Studies Postgraduate Programme and other Postgraduate Programmes within the School of International Relations. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof R Fawn  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof R Fawn  |               |                  |   |



30 - 40 credits from Middle East: IR5059, IR5115, IR5502, IR5518, IR5519, IR5520, IR5522, IR5523, IR5525, IR5526, IR5528, MH5111

| IR5059 Political Order and Violence in the Middle East   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module examines the causes and consequences of political order and violence in the Middle East. What constitutes a political order? Why and how are political orders established? What role does violence play in constituting political orders? Why and how does violence ensue with the breakdown of political orders? Drawing on IR, Sociological, and State-formation theories, we will examine different episodes of order and violence in contemporary Middle East politics: from the collapse of the Ottoman Empire to the latest Arab Uprisings, looking at colonial orders, regime-society violence, violent resistance against occupation, and civil wars.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate programmes in the School in International Relations.  |               |                  |   |
| <b>Anti-requisite(s):</b>  | IR4601  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 seminar.                                     |               |                  |   |
| <b>Assessment pattern:</b>   | Take-home Written Examination = 40%, Coursework (Essay 50%, Presentation 10%) = 60% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Saouli   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Saouli   |               |                  |   |

| IR5528 Social Movements, Revolutions and Authoritarianism in North Africa  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm †   |               |                  |   |
| <p>This module examines the dynamics and outcomes of social protests in the authoritarian regimes of North African region in the post-colonial period. It aims to describe the structural and inter-subjective features of democratic, authoritarian and revolutionary change, and to locate them in vis-à-vis the evolution of regional politics and of the international system. It describes the specificities and dilemmas of authoritarian and democratic governance in each polity with a particular focus on the developments of the last decade (post-2001). It examines in details the relationship between the state and social movements within the larger context of processes of political and economic liberalisation as well as regional (north-south) integration.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Middle East and Central Asia Security Studies and all other Postgraduate Programmes in the School of International Relations. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr F Volpi   |               |                  |   |

| MH5111 Iran and the World since 1921   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module is intended to take an in-depth look at the development of the modern Iranian state from its inception under Reza Khan in the 1920s to the present day. The module will look at the growth of the state, economic development, relations with the West, Britain and the United States in particular, before turning to the Islamic Revolution and its consequences, with particular focus on the social changes engendered by revolution and war, culminating in the Presidency of Mohammad Khatami, its causes and consequences. While following a broad chronological perspective, students will be encouraged to engage with the themes and historical tensions highlighted by the module.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for the Iranian Studies Postgraduate Programmes.<br>Optional for Middle East, Caucasus and Central Asian Security Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Ansari  |               |                  |   |

**30 - 40 further credits from: IR5029, IR5058, IR5059, IR5115, IR5502, IR5510, IR5518, IR5519, IR5520, IR5522, IR5523, IR5525, IR5526, MH5111**

| IR5029 Conflict and Peace in Post-Communist Eurasia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 1.00 pm - 3.00 pm Thu  |               |                  |   |
| <p>This module examines where and why conflicts have arisen throughout the post-communist space, Eurasia, particularly in the Balkans, Caucasus and Central Asia, and the contrasting forms these conflicts have taken. It also considers cases that were expected to but did not explode into violence, as well as ones where preventive measures appear to have succeeded. It gives comparative attention to the roles of major states, intergovernmental organisations and non-governmental organizations have played in moderating, preventing and resolving these conflicts, and considers alternative scenarios.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Middle Eastern and Central Asian Security Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture and 1-hour seminar.                                      |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B Teles Fazendeiro  |               |                  |   |

| IR5058 New and Emerging Security Threats in the Caucasus and Central Asia  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am - 12.00 noon Wed  |               |                  |   |
| <p>This module will explore security threats in the Caucasus and Central Asia. The module will cover three Caucasian and five Central Asia states in order to reach a better understanding of the commonalities and differences across the two regions. After an introduction to key theoretical perspectives and topics in security studies, the module will examine specific threats and risks that are currently under-studied in the literature.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Middle Eastern and Central Asian Security Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> -hour lecture and 1-hour seminar.                                       |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Kupatadze   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Kupatadze   |               |                  |   |

| IR5510 Central Asia in Global Politics   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 1.00 pm - 3.00 pm Tue   |               |                  |   |
| <p>Dramatically and unexpectedly, Central Asia was thrust to independence in 1991. Of all the Soviet republics, the five of Central Asia - Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan - had been the largest net recipients of Soviet aid, had benefited most economically from the Soviet Union and had thus been the most reluctant to break from the Soviet empire. Once the path of independence was followed, each of these five states faced considerable ethnic, state, economic, social and foreign policy challenges. This course aims to analyse these nation- and state-building agendas, seeking to address critically some of the now widely held assumptions about this post-Soviet area. Moreover, located in one of the world's most strategic zones, between Russia, China and a troubled Middle East, Central Asia relies on its substantial human and natural resources in the renegotiation of its geopolitical status.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Middle East, Caucasus and Central Asian Security Studies<br>Optional for International Security Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B Teles Fazendeiro   |               |                  |   |

International Relations - MECCASS MLitt & MPhil - 2015/6 - November 2015

| MH5111 Iran and the World since 1921   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module is intended to take an in-depth look at the development of the modern Iranian state from its inception under Reza Khan in the 1920s to the present day. The module will look at the growth of the state, economic development, relations with the West, Britain and the United States in particular, before turning to the Islamic Revolution and its consequences, with particular focus on the social changes engendered by revolution and war, culminating in the Presidency of Mohammad Khatami, its causes and consequences. While following a broad chronological perspective, students will be encouraged to engage with the themes and historical tensions highlighted by the module.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for the Iranian Studies Postgraduate Programmes.<br>Optional for Middle East, Caucasus and Central Asian Security Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Ansari  |               |                  |   |

## Masters in Peace and Conflict Studies

### Also Postgraduate Diploma

**Taught Element, and PG Diploma:**

60 credits: IR5151 and IR5701

60 credits: from IR5004 - IR5095, IR5403 - IR5449, IR5721 - IR5749

**MLitt**

120 credits from the Taught Element plus IR5099

**MPhil:**

120 credits from the Taught Element, 30 credits from IR5601, plus a thesis of not more than 40,000 words.

### Compulsory modules:

| IR5151 Issues in Peace and Conflict   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 4.00 pm - 6.00 pm Tue   |               |                  |   |
| This module focuses on issues surrounding the theorisation(s) of security and conflict, against the backdrop of an emerging globalisation. The module highlights the centrality of the relationship between theory, security and conflict, whilst key questions pertaining to Peace and Conflict are rigorously examined. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Peace and Conflict Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture and 1 seminar.                   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr T Wilson, Dr R Brett   |               |                  |   |

| IR5701 Theories of Peace and Conflict  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>Since the end of the Cold War, the predominant forms through which conflict is waged have transformed, precipitating profound changes both in the nature of international and intra-State conflict and in those national and international efforts to resolve and transform conflict.</p> <p>Understanding the nature of conflict and collective responses to it provides vital insights into the changing nature of the international system and into the emergence and development of those new ( non-State) actors that have begun increasingly to influence and redefine it.</p> <p>This module will analyse how and why the principal theoretical frameworks and practices employed to comprehend conflict, violence and peace building have evolved over the last decades, situating this analysis within a series of key case studies.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for the Peace and Conflict Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.                                |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%                    |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A Watson and Dr J McMullin                                       |               |                  |   |

## International Relations - Peace and Conflict Studies MLitt & MPhil - 2015/6 - November 2015

| IR5099 Dissertation for MLitt Programme/s   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 5.00 pm - 6.00 pm Wed  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for International Political Theory, International Security Studies, Middle East, Caucasus and Central Asian Security Studies and Peace and Conflict Studies MLitt Postgraduate Programmes<br>Optional for Central and East European Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr J Murer   |               |                  |            |

### Compulsory for MPhil:

| IR5601 Research Methods in international Relations   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |            |
| This is a required module for all MRes, PhD and MPhil students in the School of International Relations. It is designed to assist students in understanding the purpose and approaches of international relations scholarship, and to assist them in developing and carrying out their research. As such, it addresses a range of topics, from the history and philosophy of the social sciences to specific research methods. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the completion of the MRes, PhD and MPhil Programmes in the School of International Relations. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr V Paipais  |               |                  |            |

## Optional modules:

| IR5007 Terrorism and Liberal Democracy  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm Tue  |               |                  |   |
| <p>This module addresses: conceptual and definitional issues concerning terrorism; the relationship of terrorism to other forms of political violence; the origins, dynamics and development of contemporary terrorism; the efficacy of terrorism as a political weapon; the dilemmas and challenges of liberal democratic state responses to terrorism; and case studies in terrorism and counter-terrorism. The module is convened by Professor Richard English, and is taught by Professor Richard English, Professor Louise Richardson, Professor Bruce Hoffman, Dr Rashmi Singh, and Dr Javier Argomaniz, together with other specialist colleagues from the Handa Centre for the Study of Terrorism and Political Violence (CSTPV) and the School of International Relations.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Terrorism and Political Violence, International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes |               |                  |   |
| <b>Required for:</b>  | IR5999   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5-hours (1-hour lecture and 1.5-hour seminar).  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof R English   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Various  |               |                  |   |

| IR5030 Religion and International Politics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Tue   |               |                  |   |
| <p>This module explores the so-called 'global resurgence' of politicised religion, moving out from traditional studies of church-state relations in the West to selected case studies of religio-political interactions in the wider world. After an examination of various theoretical approaches to politics and religion emanating from both sociology and the study of international relations, the focus will be on themes - such as religion and the state, the nation, the international system, religious violence and peacemaking - and on cases - such as the role of the New Christian Right in the United States, political Islam, religious nationalism in the Indian sub-continent, or religious contributions to democratisation in Latin America. The use of specific themes and cases may vary from year to year, depending upon current developments in this area.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Security Studies Postgraduate Programme.<br>Optional for Peace and Conflict Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J P Anderson  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J P Anderson and Dr F McCallum  |               |                  |   |

| IR5033 Identity and Collective Violence  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed   |               |                  |   |
| <p>This module examines the concept of violence as a group or collective phenomenon. It explores the various manifestations of violence in its physical, structural, and symbolic forms, and explores the psychological motivations that promote or inhibit violence. Students will closely examine a series of events, both historical and contemporary, which are variously described as motivated by conflicts of ethnicity, class, race or clan membership. Students will explore the processes by which enemies are identified and maintained; how collectivities define their membership, and whether reconciliation after a violent conflict is possible. The module approaches the analysis of these conflicts from a multidisciplinary perspective.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Security Studies and other Postgraduate Taught Programmes within the School of International Relations. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Murer   |               |                  |   |

| IR5039 Political Economy of Conflict  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Tue   |               |                  |   |
| <p>This module provides a political economy perspective on conflict in a developing economy, introducing concepts and theoretical approaches of political economy and their application to situations involving conflict and violence. Economic arguments for a 'resource curse' and the explanatory binary of 'greed versus grievance' are interrogated and challenged for the absence of political, hence political economic, contextualisation and analysis. The complex network of commodities and goods traded between developed and developing economies are explored through a series of case studies and the increased securitisation of development in the twenty-first century is examined.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory, International Security Studies, Peace and Conflict Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr W B Vlcek  |               |                  |   |



| IR5050 Strategic Studies  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Mon  |               |                  |   |
| <p>The aim of this module is to discuss the major shifts and developments in modern strategic thought and practice, as well as some of the powerful factors that determined and are still determining military possibilities in the modern era. We will examine historical case studies and the reasons for changes in the use and application of military force along two axes: chronological and thematic. Starting from the Second World War, we will analyse the evolution of strategic thought and practice in response to political, technological, cultural and other developments. The combination of historical analysis and thematic issues will allow students to develop a more comprehensive picture of the evolution of strategy as well as better understanding and informed critique of major strategic trends and challenges of recent and contemporary history.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory, International Security Studies, Peace and Conflict Studies Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof H Strachan   |               |                  |   |

| IR5057 The Evolution of United Nations Peacekeeping  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00am - 12.00 noon Tue   |               |                  |   |
| <p>This module is concerned with the development of United Nations peacekeeping from the 1940s to the present. After exploring the pre-UN origins of the concept, the growing prominence of peacekeeping (paralleling the “failure” of the UN’s original plans for a comprehensive system of collective security) will be examined. The role of peacekeeping in the management of “brushfire” conflicts in the years of cold war and decolonization will be traced with reference to specific operations. The focus will then shift to the great quantitative and qualitative changes of the post-cold war period and the emergence of the so-called “new peacekeeping”. The module will conclude with consideration of possible future trajectories for UN military intervention.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Taught Programmes in International Relations.<br>(TO BE CONFIRMED) |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar (x 11 weeks)   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr N MacQueen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr N MacQueen  |               |                  |   |

| IR5059 Political Order and Violence in the Middle East   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module examines the causes and consequences of political order and violence in the Middle East. What constitutes a political order? Why and how are political orders established? What role does violence play in constituting political orders? Why and how does violence ensue with the breakdown of political orders? Drawing on IR, Sociological, and State-formation theories, we will examine different episodes of order and violence in contemporary Middle East politics: from the collapse of the Ottoman Empire to the latest Arab Uprisings, looking at colonial orders, regime-society violence, violent resistance against occupation, and civil wars.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate programmes in the School in International Relations.  |               |                  |   |
| <b>Anti-requisite(s):</b>  | IR4601  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 seminar.                                     |               |                  |   |
| <b>Assessment pattern:</b>   | Take-home Written Examination = 40%, Coursework (Essay 50%, Presentation 10%) = 60% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Saouli   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Saouli   |               |                  |   |

| IR5403 Political Philosophy and World Order  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module discusses philosophical reflections on the idea of world order through a study of certain key texts of political philosophy, selected each year from an approved list. This will consist of some Roman and Greek texts (e.g. Thucydides, History, Lucretius De Rerum Natura) some medieval Christian texts (e.g. Augustine, De Civitate Dei, Dante, De Monarchia), some modern texts (e.g. Hegel, Philosophy of History) and some twentieth century texts (for example, Voegelin, Order and History, Santayana, Dominations and Powers). These texts would be bracketed by a general methodological and philosophical introduction and a concluding discussion of the implications of these readings.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof N J H Rengger  |               |                  |   |

| IR5412 'Reason of State': Origin, Nature and Career of a Concept   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm - 5.00 pm Thu  |               |                  |   |
| The module examines the meaning, origins, development, and significance of the notion of 'reason of state' in western political thought. It explores the differences between 'reason of state', 'national interest', 'public interest' and 'common interest'. It engages with a variety of writers from different centuries (e.g. Aristotle, Cicero, Tacitus, John of Salisbury, Machiavelli, Althusius, Botero, Fichte, Morgenthau, Gramsci, Schmitt, Foucault). It encourages students to demonstrate their grasp of the concept by explaining how it works in contemporary global politics. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Slomp   |               |                  |   |

| IR5413 Topics in International Political Thought: Hannah Arendt   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Students in the MLitt in IPT have first choice in entering this module. After IPT students' needs have been filled, it will be open to students in other MLitt |               |                  |   |
| <b>Planned timetable:</b>   | 1.00 pm - 3.00 pm Thu  |               |                  |   |
| This module introduces students to key themes in the international realm through a close engagement with the ideas of a single theorist. This year's seminar will focus on the work of Hannah Arendt. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for International Political Theory and other Postgraduate Programmes within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100% (2 x 3,000-word essay = 50% each)  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P Hayden  |               |                  |   |

| IR5415 Ideologies and Social Movements in the Middle East   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am - 12.00 noon Wed   |               |                  |   |
| This module examines prominent ideologies in the modern history of the Middle East, and the role ideas play in the political mobilisation of society. The module draws particular attention to anti-colonial, nationalist, religious and liberal social movements; it compares the formation, implementation and evolution of the different sets of ideologies, and the relationships between the social movements and the state. The module aims to a) deepen students' understanding of ideologies in the region, beyond culturalist and power-political frameworks, and b) to highlight the important role of societal forces in Middle East politics. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of International Relations.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours of seminars (x 11 weeks), 1-hour tutorial (x 11 weeks), 2 office consultation hours (x 12 weeks) |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Gani   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Gani   |               |                  |   |

| IR5723 Security and Conflict in Africa  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module aims to be a systematic study of patterns of conflict in Africa and security concerns. The module will survey the literature on conflict and security as it pertains to the continent in order to gain an understanding of the competing contentions on the causes and resolution of conflict in Africa. The main question the module asks is: why does Africa appear to be so susceptible to conflicts? Although simple in appearance, the question is still the subject of a great deal of conjecture and debate. Thus, the aim of the module is to approximate reasonable and plausible answers to the question of what drives conflict in Africa. We hope to arrive at a better understanding of the complex and intricate dimensions of African wars, primarily through the rigorous study of selected case studies. In addition, we aim to take a look at broader security concerns that impact upon the lives of ordinary Africans.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Peace and Conflict Studies Postgraduate Taught programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | IR5035   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars                                 |               |                  |   |
| <b>Assessment pattern:</b>  | 3-hour Written Examination = 50%, Coursework = 50%                     |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J McMullin  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J McMullin  |               |                  |   |

| IR5728 Foreign Policy Analysis   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Thu  |               |                  |   |
| <p>This module covers the literature, research topics, and current issues in the area of foreign policy analysis – a significant subfield within the study of international relations. Research in this area is designed to answer the question: Why do states do what they do in international politics? The module is organised in a basic "levels of analysis" framework that roughly corresponds to the historical development of the study of foreign policy analysis – from outside, 'external' approaches associated with general international relations theories, to societal sources of culture and public opinion, to government organization and elite decision-making. An emphasis will be given to decision-making approaches to foreign policy, with a particular focus on psychological dimensions. The political psychology of foreign policy decision-making has become a dominant area of research in foreign policy analysis and offers a unique, complimentary perspective to an understanding of international relations. The emphasis in the course is on theories of foreign policy, as well as bridging from theories to practice. Students will also be exposed to the substance/content of the foreign policies of various countries.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for International Security Studies Postgraduate Programme and other Postgraduate Programmes within the School. |               |                  |   |
| <b>Anti-requisite(s):</b>  | IR5035  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar (x 11 weeks) 1 x 2-hour practical class (during semester)                         |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Beasley  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Beasley  |               |                  |   |

## Masters in Terrorism and Political Violence - Full time programme

### Also Postgraduate Diploma

#### *Taught Element, and PG Diploma:*

*Full time:*

60 credits: IR5901 and IR5902

60 credits: 2 modules from (Either IR5904 or IR5921) AND (Either IR5007 or IR5903)

#### **MLitt:**

120 credits from the Taught Element plus IR5999

### Compulsory modules:

| IR5901 Fundamental Issues and Structures of Terrorism  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am Mon (lecture), 2.00 pm - 5.00 pm Tue (tutorials)  |                      |                  |   |
| This module is designed to present core conceptual issues. These issues will include: Terrorism as a field of study - emergence and evolution; Definitional, conceptual, typological and theoretical issues; History of Terrorism; Ideology, Religion and Terrorism; Terrorist Organisations and Campaigns - stand-alone terrorism and terrorism combined with guerrilla warfare and political party work; Terrorism and Democracy - legal and human rights issues; Terrorism and Repression - counter-insurgency and counter-terror; Terrorism and Domestic and International Conflict - asymmetric warfare and humanitarian issues; Terrorism and Crime - linkage and law enforcement issues; Terrorism and Communication - propaganda and psychological warfare. We will cover three structures in relation to these concepts. Inside terrorist organisations and their support groups: Profiles of the most active terrorist groups - case studies. The structure of the international system and international counter-terrorist measures. Victims of terrorism and their national and transnational support organisations. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for the Terrorism and Political Violence Postgraduate Programme - full time mode.                                 |                      |                  |   |
| <b>Anti-requisite(s):</b>  | IR5951   | <b>Required for:</b> | IR5999           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture, 1.5-hour tutorial per week + advertised office hours, plus online teaching materials. |                      |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr P Lehr  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Various  |                      |                  |   |

## International Relations - Terrorism and Political Violence - Full time MLitt - 2015/6 - Nov 2015

| IR5902 Research Methods  |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 pm Mon  |                      |                  |   |
| <p>This module will present appropriate research methods to enable students to critically understand the professional literature, and to lay the foundations to enable students to engage in further research. The broad aim of this module is to provide students with sufficient research skills to identify, read and understand professional literature, and to undertake their own research activities. It will introduce critical elements of research methodology, introduce and develop skills in qualitative and quantitative research methodologies, describe and illustrate literature and documentation search and retrieval strategies, and provide an introduction to the role of the intelligence analyst as a practical example.</p> |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for the Terrorism and Political Violence Postgraduate Programme - full time mode.                         |                      |                  |   |
| <b>Anti-requisite(s):</b>  | IR5952   | <b>Required for:</b> | IR5999           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture and 1.5-hour tutorial per week + advertised office hours plus online material. |                      |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Argomaniz   |                      |                  |   |

### Optional modules:

| IR5903 Terrorism: How to Respond  |  |                      |                  |   |
|---|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11        | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Thu   |                      |                  |   |
| <p>The aim of this module is to develop knowledge and understanding of the radicalisation process and responses to it. A critical feature of this module will be a focus on data-driven research in providing the evidence with which we can build a clearer picture of the complex process of becoming involved, remaining involved, and leaving behind involvement in terrorism. The implications of these issues for the development and assessment of counterterrorism initiatives will be presented.</p> |  |                      |                  |   |
| <b>Programme module type:</b>   | Optional for the Terrorism and Political Violence Postgraduate Programme - full time mode.   |                      |                  |   |
| <b>Anti-requisite(s):</b>   | IR5953   | <b>Required for:</b> | IR5999           |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1-hour lecture, 1.5-hour tutorial per week + advertised office hours. |                      |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |                      |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R Lambert   |                      |                  |   |

| IR5904 Terrorism and Theories of Collective Action   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Available to full-time students only.  |               |                  |   |
| <b>Planned timetable:</b>  | 11.00 am Mon   |               |                  |   |
| <p>Increasingly, terrorism and political violence is coming to be seen in the wider theoretical context of political collective action, social movement theory and 'contentious politics', a process which has been assisted on the one hand by this field's own growing interest in transnational activism, and recently by growing interest in civil resistance as a neglected area in the study of insurgency within the framework of conflict studies and IR. This module will address such issues as: What does it mean to take a 'political collective action' approach to terrorism? Social movement theory and terrorism; Terrorism and high-risk activism: understanding recruitment and mobilisation; Terrorism and the Collective Action Repertoire; New Social Movements, New Terrorism? Terrorism in the Context of Transnational Activism.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for the Terrorism and Political Violence Postgraduate Programme - full time mode.   |               |                  |   |
| <b>Required for:</b>   | IR5999   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture, 1.5-hour tutorial per week + advertised office hours. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Ramsay  |               |                  |   |

| IR5921 Fundamentals of Terrorist Violence  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 4.00 pm Mon, 3.00 pm - 4.30 pm Wed   |               |                  |   |
| <p>Motives, Enablers and Implications for State Responses: This module examines how combatants in terrorist groups are able to overcome inhibitions to killing. The nature of these inhibitions is examined, as is the range of circumstances which enables them to be overcome so that lethal violence can be justified, compelling and a source of satisfaction. The module draws not only on terrorism studies but also on scholarship from a wide range of subject areas including war studies, psychology, sociology, theology, anthropology, history and art. The focus is more on individuals' aims, aspirations, and ways of imagining themselves and their actions, rather than organisational and instrumental purposes. Theory will be explored through case studies. Resulting insights are used to adduce principles for state responses to political violence. The module thus builds on the tradition of scholarship at St Andrews that examines how political violence may be effectively countered in ways that are consonant with liberal democracy.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for the Terrorism and Political Violence Postgraduate Programme                     |               |                  |   |
| <b>Pre-requisite(s):</b>   | IR5901 and IR5902  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture, 1.5-hour tutorial per week + advertised office hours. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M Currie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Various  |               |                  |   |

## International Relations - Terrorism and Political Violence - Full time MLitt - 2015/6 - Nov 2015

| IR5007 Terrorism and Liberal Democracy  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm Tue  |               |                  |   |
| <p>This module addresses: conceptual and definitional issues concerning terrorism; the relationship of terrorism to other forms of political violence; the origins, dynamics and development of contemporary terrorism; the efficacy of terrorism as a political weapon; the dilemmas and challenges of liberal democratic state responses to terrorism; and case studies in terrorism and counter-terrorism. The module is convened by Professor Richard English, and is taught by Professor Richard English, Professor Louise Richardson, Professor Bruce Hoffman, Dr Rashmi Singh, and Dr Javier Argomaniz, together with other specialist colleagues from the Handa Centre for the Study of Terrorism and Political Violence (CSTPV) and the School of International Relations.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Terrorism and Political Violence, International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Programmes |               |                  |   |
| <b>Required for:</b>  | IR5999   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5-hours (1-hour lecture and 1.5-hour seminar).  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof R English   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Various  |               |                  |   |

### Compulsory Dissertation for MLitt:

| IR5999 Dissertation for Terrorism and Political Violence MLitt Programme   |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Availability restrictions:</b>  | Available to Terrorism Studies students only.  |               |                  |        |
| <b>Planned timetable:</b>  | 3 x supervision sessions, at times to be arranged with the supervisor plus access to online dissertation teaching materials. |               |                  |        |
| <p>This module allows students to undertake an in-depth research into issues within or related to the field of Terrorism Studies and to prepare a 15,000 000-word (approximately) dissertation. The dissertation will make use of skills acquired during the Postgraduate Diploma to identify, investigate, analyse and report upon an area of contemporary concern or interest. Supervision of the dissertation will be provided.</p> |  |               |                  |        |
| <b>Programme module type:</b>  | Compulsory for Terrorism and Political Violence MLitt Postgraduate Programme.  |               |                  |        |
| <b>Pre-requisite(s):</b>   | 120 credits from Terrorist and Political Violence modules (IR5901, IR5902, IR5903, IR5904, IR5921 & IR5007)                  |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr R Singh   |               |                  |        |



## Masters in Terrorism and Political Violence - Distance learning mode

### Also Postgraduate Diploma

**Taught Element, and PG Diploma:**

60 credits: IR5951, IR5952

60 credits: IR5953, IR5954

**MLitt:**

120 credits from the Taught Element plus IR5998

### Compulsory modules – modules run concurrently for distance learners:

| IR5951 Fundamental Issues and Structures of Terrorism (Distance learning)   |   |                      |                             |
|---|---|----------------------|-----------------------------|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11        | <b>Semester:</b> Whole Year |
| <b>Planned timetable:</b>   | 1-hour lecture and 1-hour tutorial per fortnight + advertised office hours and online teaching materials.                                     |                      |                             |
| <p>This module is the first of four of an elearning Postgraduate Diploma in Terrorism Studies, and is designed to present core conceptual issues. These issues will include: Terrorism as a field of study - emergence and evolution; Definitional, conceptual, typological and theoretical issues; History of Terrorism; Ideology, Religion and Terrorism; Terrorist Organisations and Campaigns - stand-alone terrorism and terrorism combined with guerrilla warfare and political party work; Terrorism and Democracy - legal and human rights issues; Terrorism and Repression - counter-insurgency and counter-terror; Terrorism and Domestic and International Conflict - asymmetric warfare and humanitarian issues; Terrorism and Crime - linkage and law enforcement issues; Terrorism and Communication - propaganda and psychological warfare. We will cover three structures in relation to these concepts. Inside terrorist organisations and their support groups: Profiles of the most active terrorist groups - case studies. The structure of the international system and international counter-terrorist measures. Victims of terrorism and their national and transnational support organisations.</p> |   |                      |                             |
| <b>Programme module type:</b>   | Compulsory for the Terrorism and Political Violence Postgraduate Programme - distance learning mode.  |                      |                             |
| <b>Anti-requisite(s):</b>   | IR5901  | <b>Required for:</b> | IR5998                      |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Distance learners having separate video or audio lectures and attend tutorials via video conferencing. Online support. |                      |                             |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                      |                             |
| <b>Module Co-ordinator:</b>   | Dr R Singh  |                      |                             |
| <b>Lecturer(s)/Tutor(s):</b>  | Various   |                      |                             |

## International Relations - Terrorism and Political Violence - Distance mode - 2015/6 - Nov 2015

| IR5952 Research Methods (Distance learning)  |   |                      |                  |            |
|--|---|----------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11        | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | Online material and 1-hour tutorial per fortnight + advertised office hours   |                      |                  |            |
| <p>This module will present appropriate research methods to enable students to critically understand the professional literature, and to lay the foundations to enable students to engage in further research. The broad aim of this module is to provide students with sufficient research skills to identify, read and understand professional literature, and to undertake their own research activities. It will introduce critical elements of research methodology, introduce and develop skills in qualitative and quantitative research methodologies, describe and illustrate literature and documentation search and retrieval strategies, and provide an introduction to the role of the intelligence analyst as a practical example.</p> |   |                      |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Terrorism and Political Violence Postgraduate Programme - distance learning mode.  |                      |                  |            |
| <b>Anti-requisite(s):</b>  | IR5902  | <b>Required for:</b> | IR5998           |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Distance learners having separate video or audio lectures and attend tutorials via video conferencing. Online support. |                      |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                      |                  |            |
| <b>Module Co-ordinator:</b>  | Dr B Blumenau   |                      |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr B Blumenau & Dr J Argomaniz  |                      |                  |            |

| IR5953 Terrorism: How to Respond (Distance learning)  |   |                      |                  |            |
|---|---|----------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11        | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 1-hour lecture and 1-hour tutorial per fortnight + advertised office hours  |                      |                  |            |
| <p>The aim of this module is to develop knowledge and understanding of the radicalisation process and responses to it. A critical feature of this module will be a focus on data-driven research in providing the evidence with which we can build a clearer picture of the complex process of becoming involved, remaining involved, and leaving behind involvement in terrorism. The implications of these issues for the development and assessment of counterterrorism initiatives will be presented.</p> |   |                      |                  |            |
| <b>Programme module type:</b>   | Compulsory for the part-time Terrorism and Political Violence Postgraduate Programme - distance learning mode.                                |                      |                  |            |
| <b>Anti-requisite(s):</b>   | IR5903  | <b>Required for:</b> | IR5998           |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Distance learners having separate video or audio lectures and attend tutorials via video conferencing. Online support. |                      |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |                      |                  |            |
| <b>Module Co-ordinator:</b>   | Dr R Lambert  |                      |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R Lambert  |                      |                  |            |

**International Relations - Terrorism and Political Violence - Distance mode - 2015/6 - Nov 2015**

| <b>IR5954 Distance Learning Electives</b>  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | Part time - 1-hour lecture (if applicable - not all electives are delivered by lecture) and 1-hour tutorial per fortnight + advertised office hours plus online material. |               |                  |            |
| This module gives students the opportunity to apply the conceptual and theoretical knowledge gained in the other modules to selected areas of application reflecting where possible the students own interests and needs. Students will cover the following topics in the 2014/2015 academic year (depending on numbers):Critical Infrastructure Protection; Suicide Terrorism; Maritime Irregular Activities: Terrorism, Piracy and Organised Crime; Right wing terrorism and extremism; Terrorism and the Internet; Terrorism in the Age of Barbarism. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Terrorism and Political Violence Postgraduate Programme - distance learning mode.  |               |                  |            |
| <b>Required for:</b>   | IR5998  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Distance learners having separate video or audio lectures and attend tutorials via video conferencing. Online support.                             |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr J Argomaniz  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Various   |               |                  |            |

| <b>IR5998 Dissertation for Terrorism and Political Violence Studies MLitt Distance learning Programme</b>  |  |                           |                  |            |
|--|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 3 x supervision sessions, at times to be arranged with the supervisor plus access to online dissertation teaching materials. |                           |                  |            |
| This module allows students to undertake an in-depth investigationresearch into issues within or related to the field of Terrorism Studies and to prepare a 15,000 000-word (approximately) dissertation. The dissertation will make use of skills acquired during the Postgraduate Diploma to identify, investigate, analyse and report upon an area of contemporary concern or interest. Supervision of the dissertation will be provided. |  |                           |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Terrorism and Political Violence Postgraduate Programme - distance learning mode.                         |                           |                  |            |
| <b>Pre-requisite(s):</b>   | IR5951, IR5952, IR5953 & IR5954  | <b>Anti-requisite(s):</b> | IR5999           |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.   |                           |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%   |                           |                  |            |
| <b>Module Co-ordinator:</b>  | Dr R Singh   |                           |                  |            |

## School of Management

### Taught Programmes

*Click on title to jump to detailed pdf of that programme*

#### **MLitt:**

**Human Resource Management** ([link](#))

**International Business** ([link](#))

**International Business and Strategy** (*not available 2015-2016*)

**Management** ([link](#))

**Marketing** ([link](#))

#### **MSc:**

**Banking and Finance** ([link](#))

**Finance and Management** ([link](#))

**Management and Information Technology** (*see section 15*)

#### **MRes:**

**Management Studies** (*not available 2015-2016*)

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Banking and Finance

### Banking and Finance

#### *Taught Element:*

80 credits: MN5310, MN5320, MN5443 and MN5612

40 credits: MN5311, MN5604, MN5607, MN5608 and MN5611

MSc: 120 credits from the taught element plus 60 credits from MN5499

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| MN5310 Banking and Finance  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.             |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module is designed to provide students with an in-depth knowledge and a rigorous background in the mainstream areas of modern banking and finance. To accomplish the objective, students will be introduced to theories, business models and structure of commercial banking and finance. Following this, students will be acquainted to the issues associated with lending and borrowing. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Banking and Finance Postgraduate Programme.         |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 x 2-hour lectures and 1 x 1-hour seminar. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%                 |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Abedifar  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr P Abedifar  |               |                  |   |

| <b>MN5320 Research Methods in Banking and Finance (Econometrics 2)</b>   |   |                         |                  |   |
|--|---|-------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11           | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Not available as optional module to any programme.          |                         |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |                         |                  |   |
| This module is designed to further develop econometrical skills of students to implement statistical analysis in the area of banking and finance. To accomplish the objective, students will be introduced to advanced empirical techniques such as models with endogenous regressors, dynamic panel data, event studies and models with limited dependent variable. Moreover, they will learn how to apply their econometrical skills in practice using Stata. Students will acquaint basic programming skills to carry out empirical projects. |   |                         |                  |   |
| <b>Programme module type:</b>  | Compulsory for Banking and Finance Postgraduate programme.  |                         |                  |   |
| <b>Pre-requisite(s):</b>   | MN5443  | <b>Co-requisite(s):</b> | MN5612           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour lectures and 1-hour seminars. |                         |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%          |                         |                  |   |
| <b>Module Co-ordinator:</b>  | Dr P Abedifar   |                         |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr P Abedifar   |                         |                  |   |

| <b>MN5443 Research Methods in Finance (Econometrics 1)</b>  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.                                     |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The aim of this module is to provide students with an understanding of issues involved in the design of research projects within a finance and management discipline. This module aims to use recent seminal published work in selected areas of finance and management to examine issues of research design and methodology and, in doing so, aims to help students develop a critical perspective on research development and its contribution to the practice of finance and management. In particular, the module will cover areas such as identifying research areas, writing a literature review, identifying appropriate research techniques as well as the more technical aspects of quantitative research. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Banking and Finance and for Finance and Management Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr X Chen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr X Chen  |               |                  |   |

| MN5612 Investments and Portfolio Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.                                     |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module provides comprehensive instruction on topics in investment finance. It combines investment markets instruction with portfolio management - e.g. investment securities, financial institutions, risk and return, valuation methods and models, and fundamental portfolio theory. Emphasis will be on project work and applied applications to theoretical concepts. Students will produce assessed work that has real market application for institutional investors, investment managers and investment consultants. The module will prepare students for professional exams such as the Chartered Financial Analyst certification for those who desire employment in investment. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Banking and Finance and for Finance and Management Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Chronopoulos  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Chronopoulos  |               |                  |   |

| MN5499 Individual Dissertation   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Banking and Finance MSc Programme.<br>Either MN5497, MN5498 or MN5499 is compulsory for Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5498  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Up to 6 hours supervision per student.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

**Optional modules:**

| MN5311 Responsible Investment   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module provides students with an in- depth knowledge of Responsible Investment, which integrates Environmental, Social and Governance (ESG) issues into investment-decision making. The module explores a wide-range of topics including: the definition and identification of relevant Environmental, Social and Governance (ESG) data; portfolio screening and shareholder advocacy and performance evaluation; and responsible risk management.</p> <p>The module also explores advanced topics such as: carbon markets: responsible investment in real estate, hedge funds and private equity; philanthropy &amp; impact investing.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x 1-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Bouslah  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr K Bouslah  |               |                  |   |

| MN5604 Financial Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>Financial systems around the world are currently undergoing many changes. These changes arise from competition, consolidation, information technology, product and geographic expansion of manufacturing, service and financial services firms, de-regulation and re-regulation. These changes are taking place within a volatile and uncertain economic environment, and have direct implications for the development, growth and stability of financial systems. This module aims to outline the fundamentals of financial systems. A central theme running through the module is the influence of technology and innovation along with the challenges that this poses to regulators.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Chronopoulos  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr D Chronopoulos  |               |                  |   |



| MN5607 International Financial Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>From daily financial management to long term strategic decision making, a full understanding of international finance is essential for all business managers. This module begins with the international monetary frameworks and the conduct of monetary policies in major developed economies. An essential feature of international finance is the crucial role of foreign exchange rate when cross-border transactions and capital flows occur. The determination and forecast of exchange rates and their interdependence with interest rates is discussed, together with the international money and capital markets and capital flows. Recent decades saw an explosion of new derivative products to hedge risks and an understanding of basic derivatives such as options and future/forward is required of the modern business manager.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr X Chen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr X Chen  |               |                  |   |

| MN5608 Risk Management  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The last two decades have witnessed a spectacular change and growth in financial markets (equity markets, foreign exchange markets, euromarkets and international bond markets). This has brought a new breed of investors that see the role of managers as enhancing their shareholder value and protecting their wealth from potential risk. One of the challenging tasks of managers in recent years has been to manage the exposure to risks that arises from corporate decisions. The 1980s witnessed a resurgence of mergers, acquisitions and take-overs. This brought about new ways of financing such activities with project evaluation, funding and hedging have to be considered together. The principal aim of this module is to provide an introduction to managing the exposure to risk and to apply relevant theories to realistic financial decision problems. This module will also deal with assessing and measuring non-financial risks and their importance in the decision making processes within the firm.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Peralias  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Peralias  |               |                  |   |

| MN5611 Alternative Investment  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an overview on investment opportunities alternative to the main equity and bond markets. It will critically engage students with the key characteristics and issues concerning the main alternative investment opportunities, these being Commodities, Private Equity, Real Estate and especially Hedge Funds. Furthermore, this module will introduce students to the newer alternative investments which include Investibles (e.g. wine and collectibles), Islamic Investment and Responsible Investment. This module will consider the key challenges of evaluating alternative investment portfolios' performance.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practicals.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah   |               |                  |   |

## Masters in Finance and Management

### **Taught Element:**

80 credits: MN5442, MN5443, MN5444, MN5612

40 credits: from other approved 5000-level MN modules.

### **MLitt:**

120 credits from the Taught Element plus 60 credits from *either* MN5497, MN5498 *or* MN5499

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| MN5442 Corporate Financial Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Academic year:</b>   | 2015/6   |               |                  |   |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.         |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| Financial decisions are made at all levels of management and thus are at the very heart of all organisations. Managers have broadly three major responsibilities in the financial domain which include investment decisions, financing decisions and managing financial risks. Sound financial decisions can help ensure the survival of organisations in an uncertain global environment. Broadly, this module will deal with the first two tasks. The aim of this module is to provide an introduction to modern theories of financial management and to show how to apply the theory to realistic financial decision problems. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Finance and Management Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.                  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%             |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L Nguyen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr L Nguyen  |               |                  |   |

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| MN5443 Research Methods in Finance (Econometrics 1)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.                                     |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The aim of this module is to provide students with an understanding of issues involved in the design of research projects within a finance and management discipline. This module aims to use recent seminal published work in selected areas of finance and management to examine issues of research design and methodology and, in doing so, aims to help students develop a critical perspective on research development and its contribution to the practice of finance and management. In particular, the module will cover areas such as identifying research areas, writing a literature review, identifying appropriate research techniques as well as the more technical aspects of quantitative research.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Banking and Finance and for Finance and Management Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr X Chen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr X Chen  |               |                  |   |

| MN5444 Strategic Financial Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.        |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The aim of this module is to equip students with the capability of being able to manage complex strategic and financial related situations. This module will apply important analytical tools for making sound decisions in the areas of mergers and acquisitions, valuation and corporate restructuring. Overall, this module will utilise the significant linkages between these areas, as well as between financial strategy and overall strategy management, to help strengthen their firm's competitive advantage. An understanding of strategic management and corporate financial techniques is essential to assessing and developing an organisation's strategy to ensure they are matching the company's strategic advantages to the business environment in which they operate and the module seeks to address this requirement.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Finance and Management Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.                 |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%            |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Nguyen   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Nguyen   |               |                  |   |

| MN5612 Investments and Portfolio Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.                                     |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module provides comprehensive instruction on topics in investment finance. It combines investment markets instruction with portfolio management - e.g. investment securities, financial institutions, risk and return, valuation methods and models, and fundamental portfolio theory. Emphasis will be on project work and applied applications to theoretical concepts. Students will produce assessed work that has real market application for institutional investors, investment managers and investment consultants. The module will prepare students for professional exams such as the Chartered Financial Analyst certification for those who desire employment in investment. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Banking and Finance and for Finance and Management Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Chronopoulos  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Chronopoulos  |               |                  |   |

One of:

| MN5498 Group Dissertation   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>   | Workshops to be arranged.   |               |                  |            |
| This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. They are required to prepare a 15,000 word (approximately) report dissertation detailing justified conclusions and recommendations. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. Each group will comprise up to 6 students. The group dissertation will comprise 70% of the assessment; the remaining 30% will be awarded for an individual report and log book. The individual report should either critically reflect upon working in a multi-cultural project team or on a specific topic related to the group project in both cases the exact topic for the individual report will require supervisor approval. |   |               |                  |            |
| <b>Programme module type:</b>   | Either MN5497, MN5498 or MN5499 is compulsory for Banking and Finance, Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>   | MN5497, MN5499  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 x 1-hour lectures and 4 x 2-hour workshops. Students will then be given 6 hours of supervision.  |               |                  |            |
| <b>Assessment pattern:</b>  | 15,000 word group dissertation report = 70%, 3,000 word individual report = 30%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Ms J F Brooks, Supervisory team   |               |                  |            |

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| MN5499 Individual Dissertation   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Banking and Finance MSc Programme.<br>Either MN5497, MN5498 or MN5499 is compulsory for Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5498  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Up to 6 hours supervision per student.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

### Optional modules:

| MN5311 Responsible Investment  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module provides students with an in- depth knowledge of Responsible Investment, which integrates Environmental, Social and Governance (ESG) issues into investment-decision making. The module explores a wide-range of topics including: the definition and identification of relevant Environmental, Social and Governance (ESG) data; portfolio screening and shareholder advocacy and performance evaluation; and responsible risk management.<br><br>The module also explores advanced topics such as: carbon markets: responsible investment in real estate, hedge funds and private equity; philanthropy & impact investing. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x 1-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah  |               |                  |   |

| <b>MN5401 International Marketing</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module essentially involves the critical study of International Marketing. Key theories are examined carefully against the backdrop of questions such as: What is an International Marketing Strategy? How is it developed? What role does it fulfil in the organisation? The module will examine the macro and micro factors that influence and affect International Marketing. It is designed to equip students with the necessary skills to make Marketing decisions in a global context. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Fernie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Fernie  |               |                  |   |

| <b>MN5421 Managing People in Global Markets</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The module focuses on the management of human resources in global markets and will help participants understand the problems of managing people in an international/multinational context. One of the most important trends in the development of modern economies is the increased globalisation of business. Notwithstanding its economic and social impact, however, globalisation is having a significant impact on how we manage people, not only in multinational enterprises but in our indigenous companies as, increasingly, we borrow ideas on "best practice" from overseas. Such efforts at globalisation, whilst generally successful in bringing economic success, have been fraught with problems, which are often the consequence of ethnocentric management teams and their attempts to export US-style "best practice" human resource management to other countries. Thus, it is critically important for globalising firms to make sensible and contextually-sensitive decisions in key areas of human resource management, which take into account institutional, cultural and psychological differences between parent company institutions, values and practices, those of host countries and those of third country nationals employed to work in global organisations. These decisions usually concern such areas as how people are organised, recruited, selected, deployed, developed, motivated, compensated and how their performance is managed. They also focus on whether or not global organisations employ uniform human resource practices in their various locations throughout the world. Ultimately, effective international human resource management (IHRM) rests on a thorough understanding of the problems of managing people from different backgrounds and this module attempts to explore such problems in-depth and help students apply their understanding to practical managerial situations. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Timming   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Timming, Mr M J Dowling   |               |                  |   |

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| MN5501 Scenario Thinking and Strategy   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The aim of the module is to use the scenario process to understand how individuals can engage with uncertainty in operating environments in order to develop creative and robust strategies. In addition, the module will make use of the scenario process to integrate a number of important organisational development concepts that help to provide organisations with future vision and adaptability: imagination; action learning; narratives and 'storying'; competencies and dynamic capabilities; reflective strategic consulting; reflexive practices. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for International Business and Strategy Postgraduate Programme.<br>Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof B Mackay  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof B Mackay  |               |                  |   |

| MN5510 Entrepreneurship, Innovation and Creativity   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Entrepreneurship is often taught within the context of new venture creation. This module takes an alternative approach and will consider the entrepreneur opportunity locus, the role of creativity, exploitation of change and source & application of innovation. It will provide insight into the nature and identity of entrepreneurship by critically analysing the way entrepreneurial activity creates economic wealth/social value; and will impart an understanding of individual entrepreneurship, corporate entrepreneurship and social entrepreneurship. This module will draw on case studies from the creative industries such as Syco Entertainment, Delfont Macintosh and Les Miserables; and firms such as Apple, Nokia and Google. It will consider the corporate culture and the organisation of entrepreneurial firms and enable students to consider career paths, and engagement with entrepreneurs. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 2 seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr C Lovatt   |               |                  |   |



| <b>MN5511 Leadership in Organisations</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine how views of leadership have changed since the Industrial Revolution, from mechanistic, behavioural models of behaviour to modern leadership frameworks which facilitate change in ever dynamic national, international and cultural climates. Emphasis will be on how theoretical models relate to real life scenarios, how leaders are selected and how leadership is assessed. Content combines conceptual knowledge, behavioural guidelines and other information demonstrated by examples and case studies, experiential exercises and feedback on skill utilisation and performance. Lectures and seminars will combine a variety of educational approaches, from interactive discussions to action learning, with a focus on students' own individual leadership development.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar, 1 practical class.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Romenska   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Romenska   |               |                  |   |

| <b>MN5513 Ethics, Organisations and Management</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module develops students' understanding of the ethical issues surrounding management and organisations. The module is arranged around five core themes, representing the practical problems that face managers and organisations: How should we understand capitalism? What is the purpose of a corporation? Can managers be moral beings? Can markets be ethical? How should wealth be distributed? We approach these themes from philosophical, sociological, and organisational perspectives, developing students' understanding of the issues through theoretical analysis, case studies and extensive discussion. As these and similar questions are addressed, students will be encouraged to reflect and draw upon their own experiences of organisational life as issues are analysed, challenged, researched, evaluated and assessed.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Mansell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Mansell, Dr P Roscoe  |               |                  |   |

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| MN5515 Entrepreneurship and Business Development  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Successful creation of a new venture requires the conception of a robust, sustaining and growth oriented business model. This module involves the practical conception of such a business model and development of an actionable business plan that, taken together, constitutes a coherent and fully integrated plan for a viable, for-profit, enterprise. Students will collaborate to design a business model and then plan for a start-up business based on that model. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management.                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour lectures (x 11 weeks), 3-hour practical classes (x 7 weeks) |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Lovatt   |               |                  |   |

| MN5554 Marketing and Society  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module examines the effects of marketing on societies. The powerful social and cultural influence of marketing has been widely recognised. Through branding and communication marketing shapes consumption, identity and relationships. Our appearance, ideas and behaviour are influenced by marketing in ways more subtle and pervasive than we might think. What we eat, drink and wear; where we live and how we travel; our work and leisure; even the most intimate details of our lives respond to the powers of marketing. The future of marketing is challenged by the negative connotations of globalisation. Actions by certain firms have caused strong reactions to negative effects on workers, consumers and environments, such that a plethora of anti-corporate protest movements has been mobilised in recent decades. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management but not available to the Banking and Finance Postgraduate programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Ms J F Brooks  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Ms J F Brooks  |               |                  |   |

| MN5560 Creative Marketing Communications   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Advertising is a permeating creative presence in developed economies, and an important, evolving part of organisations' marketing activities and integrated marketing communications programmes. The module aims to develop your understanding of advertising as an element in the integrated marketing communications mix, of how the advertising creative and planning process is practiced and managed, and the range of contemporary issues affecting decision-making in this dynamic environment. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr W Barlow   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr W Barlow, Dr K Myrseth   |               |                  |   |

| MN5603 Responsibility, Sustainability and Accountability in Organisations  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module provides an introduction to and analysis of sustainability and corporate social responsibility, the meaning, tensions and conflicts that these concepts entail and the role that accountability can play in their achievement. The module will examine the theory and practice of social, environmental and sustainability accountability and explore and assess current experience. The module will critically but practically examine the claims made by international business in this field and explore the practical and political constraints on the organization as it seeks to address responsibility, sustainability and accountability. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MRes in Management Studies, and all other Postgraduate Programmes in the School of Management except Banking and Finance. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J Bebbington  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J Bebbington  |               |                  |   |

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| MN5604 Financial Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>Financial systems around the world are currently undergoing many changes. These changes arise from competition, consolidation, information technology, product and geographic expansion of manufacturing, service and financial services firms, de-regulation and re-regulation. These changes are taking place within a volatile and uncertain economic environment, and have direct implications for the development, growth and stability of financial systems. This module aims to outline the fundamentals of financial systems. A central theme running through the module is the influence of technology and innovation along with the challenges that this poses to regulators.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Chronopoulos  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr D Chronopoulos  |               |                  |   |

| MN5607 International Financial Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>From daily financial management to long term strategic decision making, a full understanding of international finance is essential for all business managers. This module begins with the international monetary frameworks and the conduct of monetary policies in major developed economies. An essential feature of international finance is the crucial role of foreign exchange rate when cross-border transactions and capital flows occur. The determination and forecast of exchange rates and their interdependence with interest rates is discussed, together with the international money and capital markets and capital flows. Recent decades saw an explosion of new derivative products to hedge risks and an understanding of basic derivatives such as options and future/forward is required of the modern business manager.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr X Chen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr X Chen  |               |                  |   |

| <b>MN5608 Risk Management</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The last two decades have witnessed a spectacular change and growth in financial markets (equity markets, foreign exchange markets, euromarkets and international bond markets). This has brought a new breed of investors that see the role of managers as enhancing their shareholder value and protecting their wealth from potential risk. One of the challenging tasks of managers in recent years has been to manage the exposure to risks that arises from corporate decisions. The 1980s witnessed a resurgence of mergers, acquisitions and take-overs. This brought about new ways of financing such activities with project evaluation, funding and hedging have to be considered together. The principal aim of this module is to provide an introduction to managing the exposure to risk and to apply relevant theories to realistic financial decision problems. This module will also deal with assessing and measuring non-financial risks and their importance in the decision making processes within the firm.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Peralias  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Peralias  |               |                  |   |

| <b>MN5611 Alternative Investment</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an overview on investment opportunities alternative to the main equity and bond markets. It will critically engage students with the key characteristics and issues concerning the main alternative investment opportunities, these being Commodities, Private Equity, Real Estate and especially Hedge Funds. Furthermore, this module will introduce students to the newer alternative investments which include Investibles (e.g. wine and collectibles), Islamic Investment and Responsible Investment. This module will consider the key challenges of evaluating alternative investment portfolios' performance.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practicals.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah   |               |                  |   |

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| MN5821 Managing Non-Governmental Organisations  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Non-Governmental Organisations (NGOs) occupy distinctive roles within society, economy, and polity. Situating these organisations within their different historical and international settings, this module goes on to examine the strategic challenges face by NGOs today. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, as well as the Sustainable Development MSc Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour lectures  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Woolvin  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Woolvin  |               |                  |   |

## Masters in Human Resource Management

### **Taught Element:**

80 credits: MN5001, MN5470 (or if available MN5480), MN5473 and MN5481 (if available, otherwise MN5425)

40 credits: from other approved 5000-level MN modules.

**MLitt:** 120 credits from the Taught Element plus 60 credits from *either* MN5497, MN5498 or MN5499

**Note:** For MLitt in HRM students who wish to follow the CIPD accredited version of the programme they must take MN5421 and MN5511 as their option modules and take the individual dissertation, MN5498

For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.

### Compulsory modules:

| MN5001 Contemporary Global Issues in Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module is aimed at creating a deep and wide appreciation of how various global trends will impact upon economies, organisations and from there, the practice of management. In particular, the way in which ecological, social and economic factors interact to create threats and possibilities for organisations will be addressed. Moreover, the varying ways in which these aspects manifest themselves in different parts of the globe will be elucidated in order to ensure that all students have an appreciation of both how their own and other countries might be affected by various trends. Finally, students will also be supported to make the link between these issues and how they manifest themselves in their chosen area of study. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the Human Resource Management, International Business, Marketing and International Business and Strategy (Moscow State) Postgraduate Programmes and for the Management Studies MRes Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures and 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R Woodfield  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R Woodfield, Team taught   |               |                  |   |

EITHER:

| MN5470 Managing Human Resources  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module reviews the key theoretical and practical aspects involved in managing human resources. The module content covers both the strategic and operational requirements necessary to secure, develop, reward and retain employees and to ensure their maximum contribution to organisational performance requirements. Individual, organisational and contextual factors that influence the management of people are also considered and throughout there is an emphasis on the critical, analytical and evaluative study of the subject.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Management and Human Resource Management Postgraduate Programmes.<br>Optional for Management and Information Technology Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Baluch, Mr M J Dowling  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Baluch, Mr M J Dowling, Dr A Timming  |               |                  |   |

OR:

| MN5480 Managing and Developing People  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Not available as an optional module on any programme.            |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The changing nature of organisations, work and employment places an emphasis on the need for fair and effective employment practices if employee commitment and engagement and a sense of mutuality is to be secured that is to the benefit of both the employer and the employee. Making use of the "HRM Cycle" this module will critically analyse the type of employment policies and practices necessary if such mutual outcomes are to be achieved. Four key areas will form the bedrock for this analysis: employee resourcing; employee reward; employee relations; and, employee development. The inter-relationships between these four policy and practice areas will be explored and the ways in which they collectively are managed to secure continuous learning and development of people associated with the organisation will be investigated and assessed. For individuals, the benefits of effective management and development activities to which they are exposed are said to lie in enhanced employability, human capital and career management. For the organisation, performance management and improvement are often felt to be underpinned by processes that promote the type of continuous individual and organisational learning necessary in times of rapid change in the competitive environment. In assessing the reality of this "mutual gains" approach, students will critically evaluate the context, content, processes, outputs and outcomes of the above approaches to employment management.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Human Resource Management Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and practicals.                  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50% Coursework = 50%                |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Timming   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Timming   |               |                  |   |



| MN5473 Skills and Challenges for the HR Professional  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.           |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module advances core knowledge and skills in key functional aspects of HRM. Themes in the module explore ways in which to conceptualise HRM in organisations, and the ways in which context influences the practice of HR in different organisational and occupational settings. Core business and HR-related functions such as organisational performance, organisational structure and culture, work organisation, recruitment and selection will be explored by the use of relevant case study material and practical skill-development exercises. Students will be encouraged to consider their future practice in different settings, be that national, sectoral or organisational. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Human Resource Management Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars and practicals.        |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 40%, Coursework = 60%               |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Chillas   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Chillas, Mr M Dowling, Dr A Baluch                          |               |                  |   |

**EITHER:**

| MN5481 Masterclasses in Human Resource Management  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.           |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module reviews a range of contemporary and critical issues relating to the practise, problemising and theorising about human resource management (HRM). The place of HRM within discourses about organisational purpose and performance and is well established. A growing literature also challenges us to consider a wider set of narratives concerning the ethical and responsible management of organisations and their people and the role of HRM in delivering against this agenda. The curriculum of the module will address HRM from this multiple-perspective approach by considering a range of relevant topics such as "the black box" of the performance-HRM debate, the power-control nexus in HRM, the reality of employee engagement and employee voice; HRM in not-for-profit organisations, the ethics of simultaneous offshoring and downsising strategies, HRM and the ethical management and control of organisations. Each year, the curriculum would change as relevant to reflect current issues and concerns in the discipline but each year, drawing upon contributions from a number of practitioners, academics and researchers, students will be challenged to engage with and reflect upon the meaning and reality of contemporary issues in HRM. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Human Resource Management Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars and practicals.        |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr M J Dowling   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr M J Dowling, Guest speakers                                   |               |                  |   |

OR:

| MN5425 Masterclasses in International Business   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.        |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module builds on students' prior knowledge of International Business concepts by introducing them to contemporary dialogue and debate in International Business. The module will explore specific questions within one or more broad topics such as: globalisation and globalisation protests; neo-liberalism and free trade; the global dimension of the financial crisis; the fortune at the bottom of the pyramid; 'is the world flat?' The intention is to approach each topic from a range of perspectives, including mainstream and critical understandings. Students will be encouraged to engage with the challenges presented by these issues by means of a range of approaches, including standard lectures, tutorials, and debates.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for International Business Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.                 |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Brown  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Brown  |               |                  |   |

One of:

| MN5498 Group Dissertation  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| <p>This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. They are required to prepare a 15,000 word (approximately) report dissertation detailing justified conclusions and recommendations. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. Each group will comprise up to 6 students. The group dissertation will comprise 70% of the assessment; the remaining 30% will be awarded for an individual report and log book. The individual report should either critically reflect upon working in a multi-cultural project team or on a specific topic related to the group project in both cases the exact topic for the individual report will require supervisor approval.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Either MN5497, MN5498 or MN5499 is compulsory for Banking and Finance, Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5499  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 x 1-hour lectures and 4 x 2-hour workshops. Students will then be given 6 hours of supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | 15,000 word group dissertation report = 70%, 3,000 word individual report = 30%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

| MN5499 Individual Dissertation   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Banking and Finance MSc Programme.<br>Either MN5497, MN5498 or MN5499 is compulsory for Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5498  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Up to 6 hours supervision per student.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

### Optional modules:

| MN5311 Responsible Investment  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module provides students with an in- depth knowledge of Responsible Investment, which integrates Environmental, Social and Governance (ESG) issues into investment-decision making. The module explores a wide-range of topics including: the definition and identification of relevant Environmental, Social and Governance (ESG) data; portfolio screening and shareholder advocacy and performance evaluation; and responsible risk management.<br><br>The module also explores advanced topics such as: carbon markets: responsible investment in real estate, hedge funds and private equity; philanthropy & impact investing. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x 1-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah  |               |                  |   |

## Management - MLitt Human Resource Management - 2015/6 - November 2015

| MN5401 International Marketing  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module essentially involves the critical study of International Marketing. Key theories are examined carefully against the backdrop of questions such as: What is an International Marketing Strategy? How is it developed? What role does it fulfil in the organisation? The module will examine the macro and micro factors that influence and affect International Marketing. It is designed to equip students with the necessary skills to make Marketing decisions in a global context. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Fernie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Fernie  |               |                  |   |

| MN5421 Managing People in Global Markets  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The module focuses on the management of human resources in global markets and will help participants understand the problems of managing people in an international/multinational context. One of the most important trends in the development of modern economies is the increased globalisation of business. Notwithstanding its economic and social impact, however, globalisation is having a significant impact on how we manage people, not only in multinational enterprises but in our indigenous companies as, increasingly, we borrow ideas on "best practice" from overseas. Such efforts at globalisation, whilst generally successful in bringing economic success, have been fraught with problems, which are often the consequence of ethnocentric management teams and their attempts to export US-style "best practice" human resource management to other countries. Thus, it is critically important for globalising firms to make sensible and contextually-sensitive decisions in key areas of human resource management, which take into account institutional, cultural and psychological differences between parent company institutions, values and practices, those of host countries and those of third country nationals employed to work in global organisations. These decisions usually concern such areas as how people are organised, recruited, selected, deployed, developed, motivated, compensated and how their performance is managed. They also focus on whether or not global organisations employ uniform human resource practices in their various locations throughout the world. Ultimately, effective international human resource management (IHRM) rests on a thorough understanding of the problems of managing people from different backgrounds and this module attempts to explore such problems in-depth and help students apply their understanding to practical managerial situations. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Timming   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Timming, Mr M J Dowling   |               |                  |   |

| MN5501 Scenario Thinking and Strategy   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The aim of the module is to use the scenario process to understand how individuals can engage with uncertainty in operating environments in order to develop creative and robust strategies. In addition, the module will make use of the scenario process to integrate a number of important organisational development concepts that help to provide organisations with future vision and adaptability: imagination; action learning; narratives and 'storying'; competencies and dynamic capabilities; reflective strategic consulting; reflexive practices. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for International Business and Strategy Postgraduate Programme.<br>Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof B Mackay  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof B Mackay  |               |                  |   |

| MN5510 Entrepreneurship, Innovation and Creativity   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Entrepreneurship is often taught within the context of new venture creation. This module takes an alternative approach and will consider the entrepreneur opportunity locus, the role of creativity, exploitation of change and source & application of innovation. It will provide insight into the nature and identity of entrepreneurship by critically analysing the way entrepreneurial activity creates economic wealth/social value; and will impart an understanding of individual entrepreneurship, corporate entrepreneurship and social entrepreneurship. This module will draw on case studies from the creative industries such as Syco Entertainment, Delfont Macintosh and Les Miserables; and firms such as Apple, Nokia and Google. It will consider the corporate culture and the organisation of entrepreneurial firms and enable students to consider career paths, and engagement with entrepreneurs. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 2 seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr C Lovatt   |               |                  |   |

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| MN5511 Leadership in Organisations   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine how views of leadership have changed since the Industrial Revolution, from mechanistic, behavioural models of behaviour to modern leadership frameworks which facilitate change in ever dynamic national, international and cultural climates. Emphasis will be on how theoretical models relate to real life scenarios, how leaders are selected and how leadership is assessed. Content combines conceptual knowledge, behavioural guidelines and other information demonstrated by examples and case studies, experiential exercises and feedback on skill utilisation and performance. Lectures and seminars will combine a variety of educational approaches, from interactive discussions to action learning, with a focus on students' own individual leadership development.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar, 1 practical class.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Romenska   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Romenska   |               |                  |   |

| MN5513 Ethics, Organisations and Management  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module develops students' understanding of the ethical issues surrounding management and organisations. The module is arranged around five core themes, representing the practical problems that face managers and organisations: How should we understand capitalism? What is the purpose of a corporation? Can managers be moral beings? Can markets be ethical? How should wealth be distributed? We approach these themes from philosophical, sociological, and organisational perspectives, developing students' understanding of the issues through theoretical analysis, case studies and extensive discussion. As these and similar questions are addressed, students will be encouraged to reflect and draw upon their own experiences of organisational life as issues are analysed, challenged, researched, evaluated and assessed.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Mansell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Mansell, Dr P Roscoe  |               |                  |   |

| MN5515 Entrepreneurship and Business Development  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Successful creation of a new venture requires the conception of a robust, sustaining and growth oriented business model. This module involves the practical conception of such a business model and development of an actionable business plan that, taken together, constitutes a coherent and fully integrated plan for a viable, for-profit, enterprise. Students will collaborate to design a business model and then plan for a start-up business based on that model. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management.                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour lectures (x 11 weeks), 3-hour practical classes (x 7 weeks) |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Lovatt   |               |                  |   |

| MN5554 Marketing and Society  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module examines the effects of marketing on societies. The powerful social and cultural influence of marketing has been widely recognised. Through branding and communication marketing shapes consumption, identity and relationships. Our appearance, ideas and behaviour are influenced by marketing in ways more subtle and pervasive than we might think. What we eat, drink and wear; where we live and how we travel; our work and leisure; even the most intimate details of our lives respond to the powers of marketing. The future of marketing is challenged by the negative connotations of globalisation. Actions by certain firms have caused strong reactions to negative effects on workers, consumers and environments, such that a plethora of anti-corporate protest movements has been mobilised in recent decades. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management but not available to the Banking and Finance Postgraduate programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Ms J F Brooks  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Ms J F Brooks  |               |                  |   |

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| MN5560 Creative Marketing Communications   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Advertising is a permeating creative presence in developed economies, and an important, evolving part of organisations' marketing activities and integrated marketing communications programmes. The module aims to develop your understanding of advertising as an element in the integrated marketing communications mix, of how the advertising creative and planning process is practiced and managed, and the range of contemporary issues affecting decision-making in this dynamic environment. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr W Barlow   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr W Barlow, Dr K Myrseth   |               |                  |   |

| MN5603 Responsibility, Sustainability and Accountability in Organisations  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module provides an introduction to and analysis of sustainability and corporate social responsibility, the meaning, tensions and conflicts that these concepts entail and the role that accountability can play in their achievement. The module will examine the theory and practice of social, environmental and sustainability accountability and explore and assess current experience. The module will critically but practically examine the claims made by international business in this field and explore the practical and political constraints on the organization as it seeks to address responsibility, sustainability and accountability. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MRes in Management Studies, and all other Postgraduate Programmes in the School of Management except Banking and Finance. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J Bebbington  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J Bebbington  |               |                  |   |



| MN5604 Financial Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>Financial systems around the world are currently undergoing many changes. These changes arise from competition, consolidation, information technology, product and geographic expansion of manufacturing, service and financial services firms, de-regulation and re-regulation. These changes are taking place within a volatile and uncertain economic environment, and have direct implications for the development, growth and stability of financial systems. This module aims to outline the fundamentals of financial systems. A central theme running through the module is the influence of technology and innovation along with the challenges that this poses to regulators.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Chronopoulos  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr D Chronopoulos  |               |                  |   |

| MN5607 International Financial Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>From daily financial management to long term strategic decision making, a full understanding of international finance is essential for all business managers. This module begins with the international monetary frameworks and the conduct of monetary policies in major developed economies. An essential feature of international finance is the crucial role of foreign exchange rate when cross-border transactions and capital flows occur. The determination and forecast of exchange rates and their interdependence with interest rates is discussed, together with the international money and capital markets and capital flows. Recent decades saw an explosion of new derivative products to hedge risks and an understanding of basic derivatives such as options and future/forward is required of the modern business manager.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr X Chen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr X Chen  |               |                  |   |

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| MN5608 Risk Management  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The last two decades have witnessed a spectacular change and growth in financial markets (equity markets, foreign exchange markets, euromarkets and international bond markets). This has brought a new breed of investors that see the role of managers as enhancing their shareholder value and protecting their wealth from potential risk. One of the challenging tasks of managers in recent years has been to manage the exposure to risks that arises from corporate decisions. The 1980s witnessed a resurgence of mergers, acquisitions and take-overs. This brought about new ways of financing such activities with project evaluation, funding and hedging have to be considered together. The principal aim of this module is to provide an introduction to managing the exposure to risk and to apply relevant theories to realistic financial decision problems. This module will also deal with assessing and measuring non-financial risks and their importance in the decision making processes within the firm.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Peralias  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Peralias  |               |                  |   |

| MN5611 Alternative Investment  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an overview on investment opportunities alternative to the main equity and bond markets. It will critically engage students with the key characteristics and issues concerning the main alternative investment opportunities, these being Commodities, Private Equity, Real Estate and especially Hedge Funds. Furthermore, this module will introduce students to the newer alternative investments which include Investibles (e.g. wine and collectibles), Islamic Investment and Responsible Investment. This module will consider the key challenges of evaluating alternative investment portfolios' performance.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practicals.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah   |               |                  |   |

| MN5821 Managing Non-Governmental Organisations   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>Non-Governmental Organisations (NGOs) occupy distinctive roles within society, economy, and polity. Situating these organisations within their different historical and international settings, this module goes on to examine the strategic challenges face by NGOs today.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, as well as the Sustainable Development MSc Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour lectures  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M Woolvin  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Woolvin  |               |                  |   |

## Masters in International Business

### **Taught Element:**

80 credits: MN5001, MN5002, MN5423 and MN5425

40 credits: from other approved 5000-level MN modules.

### **MLitt:**

120 credits from the Taught Element plus 60 credits from *either* MN5497, MN5498 *or* MN5499

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| MN5001 Contemporary Global Issues in Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module is aimed at creating a deep and wide appreciation of how various global trends will impact upon economies, organisations and from there, the practice of management. In particular, the way in which ecological, social and economic factors interact to create threats and possibilities for organisations will be addressed. Moreover, the varying ways in which these aspects manifest themselves in different parts of the globe will be elucidated in order to ensure that all students have an appreciation of both how their own and other countries might be affected by various trends. Finally, students will also be supported to make the link between these issues and how they manifest themselves in their chosen area of study. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the Human Resource Management, International Business, Marketing and International Business and Strategy (Moscow State) Postgraduate Programmes and for the Management Studies MRes Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures and 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr R Woodfield  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr R Woodfield, Team taught   |               |                  |   |

| MN5002 Contemporary Conceptual Issues in Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module develops students' prior understanding of management and develops a deep understanding of core conceptual challenges in organisations. Using critical case-based exploration and extensive discussion the module explores such basic yet deep questions as: What are organisations? Can organisations be managed, and what do managers actually do? How do we know what we know? Where does innovation come from? What are skills, knowledge and understanding? What is responsible enterprise? Why are organisations structured the way they are? How do personality, power and politics impact on organisational life? As these and similar questions are addressed, students will be encouraged to reflect and draw upon their own experiences of organisational life as issues are analysed, challenged, researched, evaluated and assessed.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the International Business, and Marketing Postgraduate Programmes and for the Management Studies MRes Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar and 1 practical class.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Summers  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Summers, Team taught   |               |                  |   |

| MN5423 Global Business Strategy  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>International business strategy is a broad but at the same time synthetic discipline which comprises elements of the international political economy, financial aspects and strategic planning and implementation. This module draws these elements together in the context of the international business environment and seeks to define optimal paths to competitive advantage within this complex and fast-changing business context. The module introduces a wide variety of themes, explanations and interpretations that characterise strategic management. The module will challenge students to consider strategic problems in a rigorous manner and a suitable balance between strategic planning and strategy implementation is maintained.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for International Business and International Business and Strategy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Brown   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Brown   |               |                  |   |

| MN5425 Masterclasses in International Business   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.        |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module builds on students' prior knowledge of International Business concepts by introducing them to contemporary dialogue and debate in International Business. The module will explore specific questions within one or more broad topics such as: globalisation and globalisation protests; neo-liberalism and free trade; the global dimension of the financial crisis; the fortune at the bottom of the pyramid; 'is the world flat?' The intention is to approach each topic from a range of perspectives, including mainstream and critical understandings. Students will be encouraged to engage with the challenges presented by these issues by means of a range of approaches, including standard lectures, tutorials, and debates.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for International Business Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.                 |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Brown  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Brown; Guest speakers                                    |               |                  |   |

One of:

| MN5498 Group Dissertation  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| <p>This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. They are required to prepare a 15,000 word (approximately) report dissertation detailing justified conclusions and recommendations. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. Each group will comprise up to 6 students. The group dissertation will comprise 70% of the assessment; the remaining 30% will be awarded for an individual report and log book. The individual report should either critically reflect upon working in a multi-cultural project team or on a specific topic related to the group project in both cases the exact topic for the individual report will require supervisor approval.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Either MN5497, MN5498 or MN5499 is compulsory for Banking and Finance, Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5499  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 x 1-hour lectures and 4 x 2-hour workshops. Students will then be given 6 hours of supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | 15,000 word group dissertation report = 70%, 3,000 word individual report = 30%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

## Management - MLitt International Business - 2015/6 - November 2015

| MN5499 Individual Dissertation   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Banking and Finance MSc Programme.<br>Either MN5497, MN5498 or MN5499 is compulsory for Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5498  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Up to 6 hours supervision per student.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

### Optional modules:

| MN5311 Responsible Investment  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module provides students with an in- depth knowledge of Responsible Investment, which integrates Environmental, Social and Governance (ESG) issues into investment-decision making. The module explores a wide-range of topics including: the definition and identification of relevant Environmental, Social and Governance (ESG) data; portfolio screening and shareholder advocacy and performance evaluation; and responsible risk management.<br><br>The module also explores advanced topics such as: carbon markets: responsible investment in real estate, hedge funds and private equity; philanthropy & impact investing. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x 1-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah  |               |                  |   |

| MN5401 International Marketing  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module essentially involves the critical study of International Marketing. Key theories are examined carefully against the backdrop of questions such as: What is an International Marketing Strategy? How is it developed? What role does it fulfil in the organisation? The module will examine the macro and micro factors that influence and affect International Marketing. It is designed to equip students with the necessary skills to make Marketing decisions in a global context. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Fernie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Fernie  |               |                  |   |

| MN5421 Managing People in Global Markets  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The module focuses on the management of human resources in global markets and will help participants understand the problems of managing people in an international/multinational context. One of the most important trends in the development of modern economies is the increased globalisation of business. Notwithstanding its economic and social impact, however, globalisation is having a significant impact on how we manage people, not only in multinational enterprises but in our indigenous companies as, increasingly, we borrow ideas on "best practice" from overseas. Such efforts at globalisation, whilst generally successful in bringing economic success, have been fraught with problems, which are often the consequence of ethnocentric management teams and their attempts to export US-style "best practice" human resource management to other countries. Thus, it is critically important for globalising firms to make sensible and contextually-sensitive decisions in key areas of human resource management, which take into account institutional, cultural and psychological differences between parent company institutions, values and practices, those of host countries and those of third country nationals employed to work in global organisations. These decisions usually concern such areas as how people are organised, recruited, selected, deployed, developed, motivated, compensated and how their performance is managed. They also focus on whether or not global organisations employ uniform human resource practices in their various locations throughout the world. Ultimately, effective international human resource management (IHRM) rests on a thorough understanding of the problems of managing people from different backgrounds and this module attempts to explore such problems in-depth and help students apply their understanding to practical managerial situations. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Timming   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Timming, Mr M J Dowling   |               |                  |   |



| <b>MN5501 Scenario Thinking and Strategy</b>  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The aim of the module is to use the scenario process to understand how individuals can engage with uncertainty in operating environments in order to develop creative and robust strategies. In addition, the module will make use of the scenario process to integrate a number of important organisational development concepts that help to provide organisations with future vision and adaptability: imagination; action learning; narratives and 'storying'; competencies and dynamic capabilities; reflective strategic consulting; reflexive practices. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for International Business and Strategy Postgraduate Programme.<br>Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof B Mackay  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof B Mackay  |               |                  |   |

| <b>MN5510 Entrepreneurship, Innovation and Creativity</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Entrepreneurship is often taught within the context of new venture creation. This module takes an alternative approach and will consider the entrepreneur opportunity locus, the role of creativity, exploitation of change and source & application of innovation. It will provide insight into the nature and identity of entrepreneurship by critically analysing the way entrepreneurial activity creates economic wealth/social value; and will impart an understanding of individual entrepreneurship, corporate entrepreneurship and social entrepreneurship. This module will draw on case studies from the creative industries such as Syco Entertainment, Delfont Macintosh and Les Miserables; and firms such as Apple, Nokia and Google. It will consider the corporate culture and the organisation of entrepreneurial firms and enable students to consider career paths, and engagement with entrepreneurs. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 2 seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr C Lovatt   |               |                  |   |

| MN5511 Leadership in Organisations   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine how views of leadership have changed since the Industrial Revolution, from mechanistic, behavioural models of behaviour to modern leadership frameworks which facilitate change in ever dynamic national, international and cultural climates. Emphasis will be on how theoretical models relate to real life scenarios, how leaders are selected and how leadership is assessed. Content combines conceptual knowledge, behavioural guidelines and other information demonstrated by examples and case studies, experiential exercises and feedback on skill utilisation and performance. Lectures and seminars will combine a variety of educational approaches, from interactive discussions to action learning, with a focus on students' own individual leadership development.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar, 1 practical class.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Romenska   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Romenska   |               |                  |   |

| MN5513 Ethics, Organisations and Management  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module develops students' understanding of the ethical issues surrounding management and organisations. The module is arranged around five core themes, representing the practical problems that face managers and organisations: How should we understand capitalism? What is the purpose of a corporation? Can managers be moral beings? Can markets be ethical? How should wealth be distributed? We approach these themes from philosophical, sociological, and organisational perspectives, developing students' understanding of the issues through theoretical analysis, case studies and extensive discussion. As these and similar questions are addressed, students will be encouraged to reflect and draw upon their own experiences of organisational life as issues are analysed, challenged, researched, evaluated and assessed.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Mansell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Mansell, Dr P Roscoe  |               |                  |   |

| MN5515 Entrepreneurship and Business Development  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Successful creation of a new venture requires the conception of a robust, sustaining and growth oriented business model. This module involves the practical conception of such a business model and development of an actionable business plan that, taken together, constitutes a coherent and fully integrated plan for a viable, for-profit, enterprise. Students will collaborate to design a business model and then plan for a start-up business based on that model. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management.                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour lectures (x 11 weeks), 3-hour practical classes (x 7 weeks) |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Lovatt   |               |                  |   |

| MN5554 Marketing and Society  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module examines the effects of marketing on societies. The powerful social and cultural influence of marketing has been widely recognised. Through branding and communication marketing shapes consumption, identity and relationships. Our appearance, ideas and behaviour are influenced by marketing in ways more subtle and pervasive than we might think. What we eat, drink and wear; where we live and how we travel; our work and leisure; even the most intimate details of our lives respond to the powers of marketing. The future of marketing is challenged by the negative connotations of globalisation. Actions by certain firms have caused strong reactions to negative effects on workers, consumers and environments, such that a plethora of anti-corporate protest movements has been mobilised in recent decades. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management but not available to the Banking and Finance Postgraduate programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Ms J F Brooks  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Ms J F Brooks  |               |                  |   |

| MN5560 Creative Marketing Communications   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Advertising is a permeating creative presence in developed economies, and an important, evolving part of organisations' marketing activities and integrated marketing communications programmes. The module aims to develop your understanding of advertising as an element in the integrated marketing communications mix, of how the advertising creative and planning process is practiced and managed, and the range of contemporary issues affecting decision-making in this dynamic environment. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr W Barlow   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr W Barlow, Dr K Myrseth   |               |                  |   |

| MN5603 Responsibility, Sustainability and Accountability in Organisations  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module provides an introduction to and analysis of sustainability and corporate social responsibility, the meaning, tensions and conflicts that these concepts entail and the role that accountability can play in their achievement. The module will examine the theory and practice of social, environmental and sustainability accountability and explore and assess current experience. The module will critically but practically examine the claims made by international business in this field and explore the practical and political constraints on the organization as it seeks to address responsibility, sustainability and accountability. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MRes in Management Studies, and all other Postgraduate Programmes in the School of Management except Banking and Finance. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J Bebbington  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J Bebbington  |               |                  |   |

| MN5604 Financial Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>Financial systems around the world are currently undergoing many changes. These changes arise from competition, consolidation, information technology, product and geographic expansion of manufacturing, service and financial services firms, de-regulation and re-regulation. These changes are taking place within a volatile and uncertain economic environment, and have direct implications for the development, growth and stability of financial systems. This module aims to outline the fundamentals of financial systems. A central theme running through the module is the influence of technology and innovation along with the challenges that this poses to regulators.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Chronopoulos  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr D Chronopoulos  |               |                  |   |

| MN5607 International Financial Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>From daily financial management to long term strategic decision making, a full understanding of international finance is essential for all business managers. This module begins with the international monetary frameworks and the conduct of monetary policies in major developed economies. An essential feature of international finance is the crucial role of foreign exchange rate when cross-border transactions and capital flows occur. The determination and forecast of exchange rates and their interdependence with interest rates is discussed, together with the international money and capital markets and capital flows. Recent decades saw an explosion of new derivative products to hedge risks and an understanding of basic derivatives such as options and future/forward is required of the modern business manager.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr X Chen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr X Chen  |               |                  |   |

| MN5608 Risk Management  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The last two decades have witnessed a spectacular change and growth in financial markets (equity markets, foreign exchange markets, euromarkets and international bond markets). This has brought a new breed of investors that see the role of managers as enhancing their shareholder value and protecting their wealth from potential risk. One of the challenging tasks of managers in recent years has been to manage the exposure to risks that arises from corporate decisions. The 1980s witnessed a resurgence of mergers, acquisitions and take-overs. This brought about new ways of financing such activities with project evaluation, funding and hedging have to be considered together. The principal aim of this module is to provide an introduction to managing the exposure to risk and to apply relevant theories to realistic financial decision problems. This module will also deal with assessing and measuring non-financial risks and their importance in the decision making processes within the firm.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Peralias  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Peralias  |               |                  |   |

| MN5611 Alternative Investment  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an overview on investment opportunities alternative to the main equity and bond markets. It will critically engage students with the key characteristics and issues concerning the main alternative investment opportunities, these being Commodities, Private Equity, Real Estate and especially Hedge Funds. Furthermore, this module will introduce students to the newer alternative investments which include Investibles (e.g. wine and collectibles), Islamic Investment and Responsible Investment. This module will consider the key challenges of evaluating alternative investment portfolios' performance.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practicals.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah   |               |                  |   |

| MN5821 Managing Non-Governmental Organisations  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Non-Governmental Organisations (NGOs) occupy distinctive roles within society, economy, and polity. Situating these organisations within their different historical and international settings, this module goes on to examine the strategic challenges face by NGOs today. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, as well as the Sustainable Development MSc Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour lectures  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Woolvin  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Woolvin  |               |                  |   |

## Masters in Management

### **Taught Element:**

80 credits: MN5424, MN5461, MN5470, MN5471

40 credits: from other approved 5000-level MN modules.

### **MLitt:**

120 credits as for the Taught Element plus 60 credits from *either* MN5497, MN5498 *or* MN5499

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| MN5424 Corporate Finance and Accounting  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| The module will introduce students to the basic principles and practices of accounting and corporate finance. The first half of the module will concentrate on teaching students financial accounting and reporting via the accounting equation method; this will enable students to become familiar with accounting techniques and develop an understanding of financial statements and methods employed in their creation. The second half of the module will introduce corporate finance concepts such as capital structure, the CAPM, and investment appraisal techniques. The module will employ case studies to highlight to students how these principles are employed within industry; the case studies will be based in an international setting. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Management Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>  | MN5422  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Ms L Stevenson  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms L Stevenson; Dr D Nguyen   |               |                  |   |



## Management - MLitt International Business - 2015/6 - November 2015

| MN5461 Strategic Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>Over the last three decades one of the most significant global trends has been the rapid technical development of information technology and the parallel intensification in the commercial and administrative use of this technology by organisations. In this context this module will develop students' knowledge and understanding of the strategy process and develop an appreciation of organisational responses to the rapidly changing global economy. In addition to this, the module will develop a critical understanding of the challenges of operating in the information age and will also develop awareness of the range of approaches to organisational strategy; its purpose and the process of aligning corporate strategy with operational strategies in the knowledge economy. The module will challenge students to evaluate organisational processes, including marketing and promotion, logistics and supply chain management, in a rigorous manner and develop an understanding as to how organisational resources can be harnessed to respond to the organisational challenges of operating in an age of rapidly and easily accessible information.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the Management Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour lecture and a 1-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Keenan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr P Keenan   |               |                  |   |

| MN5470 Managing Human Resources  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module reviews the key theoretical and practical aspects involved in managing human resources. The module content covers both the strategic and operational requirements necessary to secure, develop, reward and retain employees and to ensure their maximum contribution to organisational performance requirements. Individual, organisational and contextual factors that influence the management of people are also considered and throughout there is an emphasis on the critical, analytical and evaluative study of the subject.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Management and Human Resource Management Postgraduate Programmes.<br>Optional for Management and Information Technology Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Baluch, Mr M J Dowling  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Baluch, Mr M J Dowling  |               |                  |   |

| MN5471 Marketing: Principles and Practice  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>Marketing is a pervasive social phenomenon, influencing our perceptions and behaviours. We are all in daily contact with the marketing activities of firms, governments and a range of other organisation sand we have all observed and experienced aspects of marketing practice throughout our daily lives. Adopting primarily a managerial perspective, this module will offer a critical review of current theory and practice and look at how marketing is evolving in light of changes to the business context. This module will introduce students to the nature and scope of marketing and its role in society. The importance of identifying, understanding and satisfying customers will be highlighted and approaches to segmenting markets and identifying target market swill be reviewed. Marketing activities will be considered within the context of the marketing mix and other managerially-determined variables. The importance of marketing research and the associated processes will be discussed.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Management Postgraduate Programme.<br>Optional for Management and Information Technology Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr W Barlow   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr W Barlow   |               |                  |   |

One of:

| MN5498 Group Dissertation  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| <p>This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. They are required to prepare a 15,000 word (approximately) report dissertation detailing justified conclusions and recommendations. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. Each group will comprise up to 6 students. The group dissertation will comprise 70% of the assessment; the remaining 30% will be awarded for an individual report and log book. The individual report should either critically reflect upon working in a multi-cultural project team or on a specific topic related to the group project in both cases the exact topic for the individual report will require supervisor approval.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Either MN5497, MN5498 or MN5499 is compulsory for Banking and Finance, Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5499  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 x 1-hour lectures and 4 x 2-hour workshops. Students will then be given 6 hours of supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | 15,000 word group dissertation report = 70%, 3,000 word individual report = 30%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

| MN5499 Individual Dissertation   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Banking and Finance MSc Programme.<br>Either MN5497, MN5498 or MN5499 is compulsory for Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5498  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Up to 6 hours supervision per student.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

## Optional modules:

| MN5311 Responsible Investment  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module provides students with an in- depth knowledge of Responsible Investment, which integrates Environmental, Social and Governance (ESG) issues into investment-decision making. The module explores a wide-range of topics including: the definition and identification of relevant Environmental, Social and Governance (ESG) data; portfolio screening and shareholder advocacy and performance evaluation; and responsible risk management.<br>The module also explores advanced topics such as: carbon markets: responsible investment in real estate, hedge funds and private equity; philanthropy & impact investing. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x 1-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah  |               |                  |   |

| <b>MN5401 International Marketing</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module essentially involves the critical study of International Marketing. Key theories are examined carefully against the backdrop of questions such as: What is an International Marketing Strategy? How is it developed? What role does it fulfil in the organisation? The module will examine the macro and micro factors that influence and affect International Marketing. It is designed to equip students with the necessary skills to make Marketing decisions in a global context. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Fernie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Fernie  |               |                  |   |

| <b>MN5421 Managing People in Global Markets</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The module focuses on the management of human resources in global markets and will help participants understand the problems of managing people in an international/multinational context. One of the most important trends in the development of modern economies is the increased globalisation of business. Notwithstanding its economic and social impact, however, globalisation is having a significant impact on how we manage people, not only in multinational enterprises but in our indigenous companies as, increasingly, we borrow ideas on "best practice" from overseas. Such efforts at globalisation, whilst generally successful in bringing economic success, have been fraught with problems, which are often the consequence of ethnocentric management teams and their attempts to export US-style "best practice" human resource management to other countries. Thus, it is critically important for globalising firms to make sensible and contextually-sensitive decisions in key areas of human resource management, which take into account institutional, cultural and psychological differences between parent company institutions, values and practices, those of host countries and those of third country nationals employed to work in global organisations. These decisions usually concern such areas as how people are organised, recruited, selected, deployed, developed, motivated, compensated and how their performance is managed. They also focus on whether or not global organisations employ uniform human resource practices in their various locations throughout the world. Ultimately, effective international human resource management (IHRM) rests on a thorough understanding of the problems of managing people from different backgrounds and this module attempts to explore such problems in-depth and help students apply their understanding to practical managerial situations. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Timming   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Timming, Mr M J Dowling   |               |                  |   |

## Management - MLitt International Business - 2015/6 - November 2015

| MN5501 Scenario Thinking and Strategy   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The aim of the module is to use the scenario process to understand how individuals can engage with uncertainty in operating environments in order to develop creative and robust strategies. In addition, the module will make use of the scenario process to integrate a number of important organisational development concepts that help to provide organisations with future vision and adaptability: imagination; action learning; narratives and 'storying'; competencies and dynamic capabilities; reflective strategic consulting; reflexive practices. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for International Business and Strategy Postgraduate Programme.<br>Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof B Mackay  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof B Mackay  |               |                  |   |

| MN5510 Entrepreneurship, Innovation and Creativity   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Entrepreneurship is often taught within the context of new venture creation. This module takes an alternative approach and will consider the entrepreneur opportunity locus, the role of creativity, exploitation of change and source & application of innovation. It will provide insight into the nature and identity of entrepreneurship by critically analysing the way entrepreneurial activity creates economic wealth/social value; and will impart an understanding of individual entrepreneurship, corporate entrepreneurship and social entrepreneurship. This module will draw on case studies from the creative industries such as Syco Entertainment, Delfont Macintosh and Les Miserables; and firms such as Apple, Nokia and Google. It will consider the corporate culture and the organisation of entrepreneurial firms and enable students to consider career paths, and engagement with entrepreneurs. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 2 seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr C Lovatt   |               |                  |   |

| MN5511 Leadership in Organisations   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine how views of leadership have changed since the Industrial Revolution, from mechanistic, behavioural models of behaviour to modern leadership frameworks which facilitate change in ever dynamic national, international and cultural climates. Emphasis will be on how theoretical models relate to real life scenarios, how leaders are selected and how leadership is assessed. Content combines conceptual knowledge, behavioural guidelines and other information demonstrated by examples and case studies, experiential exercises and feedback on skill utilisation and performance. Lectures and seminars will combine a variety of educational approaches, from interactive discussions to action learning, with a focus on students' own individual leadership development.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar, 1 practical class.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Romenska   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Romenska   |               |                  |   |

| MN5513 Ethics, Organisations and Management  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module develops students' understanding of the ethical issues surrounding management and organisations. The module is arranged around five core themes, representing the practical problems that face managers and organisations: How should we understand capitalism? What is the purpose of a corporation? Can managers be moral beings? Can markets be ethical? How should wealth be distributed? We approach these themes from philosophical, sociological, and organisational perspectives, developing students' understanding of the issues through theoretical analysis, case studies and extensive discussion. As these and similar questions are addressed, students will be encouraged to reflect and draw upon their own experiences of organisational life as issues are analysed, challenged, researched, evaluated and assessed.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Mansell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Mansell, Dr P Roscoe  |               |                  |   |

## Management - MLitt International Business - 2015/6 - November 2015

| MN5515 Entrepreneurship and Business Development  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Successful creation of a new venture requires the conception of a robust, sustaining and growth oriented business model. This module involves the practical conception of such a business model and development of an actionable business plan that, taken together, constitutes a coherent and fully integrated plan for a viable, for-profit, enterprise. Students will collaborate to design a business model and then plan for a start-up business based on that model. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management.                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour lectures (x 11 weeks), 3-hour practical classes (x 7 weeks) |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Lovatt   |               |                  |   |

| MN5554 Marketing and Society  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module examines the effects of marketing on societies. The powerful social and cultural influence of marketing has been widely recognised. Through branding and communication marketing shapes consumption, identity and relationships. Our appearance, ideas and behaviour are influenced by marketing in ways more subtle and pervasive than we might think. What we eat, drink and wear; where we live and how we travel; our work and leisure; even the most intimate details of our lives respond to the powers of marketing. The future of marketing is challenged by the negative connotations of globalisation. Actions by certain firms have caused strong reactions to negative effects on workers, consumers and environments, such that a plethora of anti-corporate protest movements has been mobilised in recent decades. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management but not available to the Banking and Finance Postgraduate programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Ms J F Brooks  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Ms J F Brooks  |               |                  |   |

| MN5560 Creative Marketing Communications   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Advertising is a permeating creative presence in developed economies, and an important, evolving part of organisations' marketing activities and integrated marketing communications programmes. The module aims to develop your understanding of advertising as an element in the integrated marketing communications mix, of how the advertising creative and planning process is practiced and managed, and the range of contemporary issues affecting decision-making in this dynamic environment. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr W Barlow   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr W Barlow, Dr K Myrseth   |               |                  |   |

| MN5603 Responsibility, Sustainability and Accountability in Organisations  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module provides an introduction to and analysis of sustainability and corporate social responsibility, the meaning, tensions and conflicts that these concepts entail and the role that accountability can play in their achievement. The module will examine the theory and practice of social, environmental and sustainability accountability and explore and assess current experience. The module will critically but practically examine the claims made by international business in this field and explore the practical and political constraints on the organization as it seeks to address responsibility, sustainability and accountability. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MRes in Management Studies, and all other Postgraduate Programmes in the School of Management except Banking and Finance. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J Bebbington  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J Bebbington  |               |                  |   |



| MN5604 Financial Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>Financial systems around the world are currently undergoing many changes. These changes arise from competition, consolidation, information technology, product and geographic expansion of manufacturing, service and financial services firms, de-regulation and re-regulation. These changes are taking place within a volatile and uncertain economic environment, and have direct implications for the development, growth and stability of financial systems. This module aims to outline the fundamentals of financial systems. A central theme running through the module is the influence of technology and innovation along with the challenges that this poses to regulators.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Chronopoulos  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr D Chronopoulos  |               |                  |   |

| MN5607 International Financial Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>From daily financial management to long term strategic decision making, a full understanding of international finance is essential for all business managers. This module begins with the international monetary frameworks and the conduct of monetary policies in major developed economies. An essential feature of international finance is the crucial role of foreign exchange rate when cross-border transactions and capital flows occur. The determination and forecast of exchange rates and their interdependence with interest rates is discussed, together with the international money and capital markets and capital flows. Recent decades saw an explosion of new derivative products to hedge risks and an understanding of basic derivatives such as options and future/forward is required of the modern business manager.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr X Chen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr X Chen  |               |                  |   |

| MN5608 Risk Management  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The last two decades have witnessed a spectacular change and growth in financial markets (equity markets, foreign exchange markets, euromarkets and international bond markets). This has brought a new breed of investors that see the role of managers as enhancing their shareholder value and protecting their wealth from potential risk. One of the challenging tasks of managers in recent years has been to manage the exposure to risks that arises from corporate decisions. The 1980s witnessed a resurgence of mergers, acquisitions and take-overs. This brought about new ways of financing such activities with project evaluation, funding and hedging have to be considered together. The principal aim of this module is to provide an introduction to managing the exposure to risk and to apply relevant theories to realistic financial decision problems. This module will also deal with assessing and measuring non-financial risks and their importance in the decision making processes within the firm.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Peralias  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Peralias  |               |                  |   |

| MN5611 Alternative Investment  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an overview on investment opportunities alternative to the main equity and bond markets. It will critically engage students with the key characteristics and issues concerning the main alternative investment opportunities, these being Commodities, Private Equity, Real Estate and especially Hedge Funds. Furthermore, this module will introduce students to the newer alternative investments which include Investibles (e.g. wine and collectibles), Islamic Investment and Responsible Investment. This module will consider the key challenges of evaluating alternative investment portfolios' performance.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practicals.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah   |               |                  |   |

| MN5821 Managing Non-Governmental Organisations  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Non-Governmental Organisations (NGOs) occupy distinctive roles within society, economy, and polity. Situating these organisations within their different historical and international settings, this module goes on to examine the strategic challenges face by NGOs today. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, as well as the Sustainable Development MSc Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour lectures  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Woolvin  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Woolvin  |               |                  |   |

## Masters in Marketing

### **Taught Element:**

80 credits: MN5001, MN5002, MN5405 and MN5406

40 credits: from other approved 5000-level MN modules.

### **MLitt:**

120 credits as for the Taught Element plus 60 credits from *either* MN5497, MN5498 *or* MN5499

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| MN5001 Contemporary Global Issues in Management  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module is aimed at creating a deep and wide appreciation of how various global trends will impact upon economies, organisations and from there, the practice of management. In particular, the way in which ecological, social and economic factors interact to create threats and possibilities for organisations will be addressed. Moreover, the varying ways in which these aspects manifest themselves in different parts of the globe will be elucidated in order to ensure that all students have an appreciation of both how their own and other countries might be affected by various trends. Finally, students will also be supported to make the link between these issues and how they manifest themselves in their chosen area of study.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for the Human Resource Management, International Business, Marketing and International Business and Strategy (Moscow State) Postgraduate Programmes and for the Management Studies MRes Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures and 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Woodfield  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr R Woodfield, Team taught   |               |                  |   |

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| MN5002 Contemporary Conceptual Issues in Management   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module develops students' prior understanding of management and develops a deep understanding of core conceptual challenges in organisations. Using critical case-based exploration and extensive discussion the module explores such basic yet deep questions as: What are organisations? Can organisations be managed, and what do managers actually do? How do we know what we know? Where does innovation come from? What are skills, knowledge and understanding? What is responsible enterprise? Why are organisations structured the way they are? How do personality, power and politics impact on organisational life? As these and similar questions are addressed, students will be encouraged to reflect and draw upon their own experiences of organisational life as issues are analysed, challenged, researched, evaluated and assessed.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for the International Business, and Marketing Postgraduate Programmes and for the Management Studies MRes Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar and 1 practical class.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Summers  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Summers, Team taught   |               |                  |   |

| MN5405 Dialogue and Debate in Marketing (Masterclasses)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Not available as an optional module for any programme.           |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module builds on students' prior knowledge of marketing concepts by introducing them to contemporary dialogue and debate in marketing and exploring specific questions within one or more broad topics such as; power, technology, morality, green consumption, globalisation and communication. The intention is to approach each topic from a range of perspectives, including mainstream and critical understandings. Students will be encouraged to engage with the challenges presented by these issues by means of a range of approaches, including standard lectures, and tutorials, debates, simulations and site visits.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Marketing Postgraduate Programme.                 |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Ms J F Brooks  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Ms J F Brooks, Guest speakers                                    |               |                  |   |

| MN5406 Consumer Behaviour and Marketing Research   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Academic year:</b>  | 2015/6   |               |                  |   |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.           |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module aims to refresh and enhance the theoretical and research skills of participants by introducing them to a range of theory, including psychoanalysis, behaviourism, cognitive learning theory and semiotics and then illustrating these in the context of marketing research. A theory will be introduced in one week and then its implications for marketing research will be illustrated in subsequent weeks. For example psychoanalysis will be illustrated by focusing on the use of depth interviews, focus groups and rorschach tests; behaviourism by observation and cognitive learning theory by experimental design of perceptual measurements and the construction of attitude questionnaires.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Marketing Postgraduate Programme.                 |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars and practical classes. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%               |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Myrseth   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Myrseth   |               |                  |   |

One of:

| MN5498 Group Dissertation  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| <p>This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. They are required to prepare a 15,000 word (approximately) report dissertation detailing justified conclusions and recommendations. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. Each group will comprise up to 6 students. The group dissertation will comprise 70% of the assessment; the remaining 30% will be awarded for an individual report and log book. The individual report should either critically reflect upon working in a multi-cultural project team or on a specific topic related to the group project in both cases the exact topic for the individual report will require supervisor approval.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Either MN5497, MN5498 or MN5499 is compulsory for Banking and Finance, Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5499  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 x 1-hour lectures and 4 x 2-hour workshops. Students will then be given 6 hours of supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | 15,000 word group dissertation report = 70%, 3,000 word individual report = 30%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

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| MN5499 Individual Dissertation   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Not available as an optional module for any programme.  |               |                  |            |
| <b>Planned timetable:</b>  | Workshops to be arranged.   |               |                  |            |
| This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of business and finance. Training in methodology will be provided to students in semesters 1 and 2 as preparation for the dissertation. Supervision of the dissertation is also provided. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Banking and Finance MSc Programme.<br>Either MN5497, MN5498 or MN5499 is compulsory for Finance and Management, International Business, International Business and Strategy, Human Resource Management or Management MLitt or MSc Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | MN5497, MN5498  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Up to 6 hours supervision per student.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Ms J F Brooks   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Ms J F Brooks, Supervisory team   |               |                  |            |

### Optional modules:

| MN5311 Responsible Investment  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module provides students with an in- depth knowledge of Responsible Investment, which integrates Environmental, Social and Governance (ESG) issues into investment-decision making. The module explores a wide-range of topics including: the definition and identification of relevant Environmental, Social and Governance (ESG) data; portfolio screening and shareholder advocacy and performance evaluation; and responsible risk management.<br><br>The module also explores advanced topics such as: carbon markets: responsible investment in real estate, hedge funds and private equity; philanthropy & impact investing. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for all Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x 1-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah  |               |                  |   |

| MN5401 International Marketing  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module essentially involves the critical study of International Marketing. Key theories are examined carefully against the backdrop of questions such as: What is an International Marketing Strategy? How is it developed? What role does it fulfil in the organisation? The module will examine the macro and micro factors that influence and affect International Marketing. It is designed to equip students with the necessary skills to make Marketing decisions in a global context. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Fernie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Fernie  |               |                  |   |

| MN5421 Managing People in Global Markets  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The module focuses on the management of human resources in global markets and will help participants understand the problems of managing people in an international/multinational context. One of the most important trends in the development of modern economies is the increased globalisation of business. Notwithstanding its economic and social impact, however, globalisation is having a significant impact on how we manage people, not only in multinational enterprises but in our indigenous companies as, increasingly, we borrow ideas on "best practice" from overseas. Such efforts at globalisation, whilst generally successful in bringing economic success, have been fraught with problems, which are often the consequence of ethnocentric management teams and their attempts to export US-style "best practice" human resource management to other countries. Thus, it is critically important for globalising firms to make sensible and contextually-sensitive decisions in key areas of human resource management, which take into account institutional, cultural and psychological differences between parent company institutions, values and practices, those of host countries and those of third country nationals employed to work in global organisations. These decisions usually concern such areas as how people are organised, recruited, selected, deployed, developed, motivated, compensated and how their performance is managed. They also focus on whether or not global organisations employ uniform human resource practices in their various locations throughout the world. Ultimately, effective international human resource management (IHRM) rests on a thorough understanding of the problems of managing people from different backgrounds and this module attempts to explore such problems in-depth and help students apply their understanding to practical managerial situations. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management, not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Timming   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Timming, Mr M J Dowling   |               |                  |   |



| MN5501 Scenario Thinking and Strategy   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| The aim of the module is to use the scenario process to understand how individuals can engage with uncertainty in operating environments in order to develop creative and robust strategies. In addition, the module will make use of the scenario process to integrate a number of important organisational development concepts that help to provide organisations with future vision and adaptability: imagination; action learning; narratives and 'storying'; competencies and dynamic capabilities; reflective strategic consulting; reflexive practices. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for International Business and Strategy Postgraduate Programme.<br>Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof B Mackay  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof B Mackay  |               |                  |   |

| MN5510 Entrepreneurship, Innovation and Creativity   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Entrepreneurship is often taught within the context of new venture creation. This module takes an alternative approach and will consider the entrepreneur opportunity locus, the role of creativity, exploitation of change and source & application of innovation. It will provide insight into the nature and identity of entrepreneurship by critically analysing the way entrepreneurial activity creates economic wealth/social value; and will impart an understanding of individual entrepreneurship, corporate entrepreneurship and social entrepreneurship. This module will draw on case studies from the creative industries such as Syco Entertainment, Delfont Macintosh and Les Miserables; and firms such as Apple, Nokia and Google. It will consider the corporate culture and the organisation of entrepreneurial firms and enable students to consider career paths, and engagement with entrepreneurs. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 2 seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr C Lovatt   |               |                  |   |

| MN5511 Leadership in Organisations   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module will examine how views of leadership have changed since the Industrial Revolution, from mechanistic, behavioural models of behaviour to modern leadership frameworks which facilitate change in ever dynamic national, international and cultural climates. Emphasis will be on how theoretical models relate to real life scenarios, how leaders are selected and how leadership is assessed. Content combines conceptual knowledge, behavioural guidelines and other information demonstrated by examples and case studies, experiential exercises and feedback on skill utilisation and performance. Lectures and seminars will combine a variety of educational approaches, from interactive discussions to action learning, with a focus on students' own individual leadership development.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar, 1 practical class.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Romenska   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Romenska   |               |                  |   |

| MN5513 Ethics, Organisations and Management  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme.   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module develops students' understanding of the ethical issues surrounding management and organisations. The module is arranged around five core themes, representing the practical problems that face managers and organisations: How should we understand capitalism? What is the purpose of a corporation? Can managers be moral beings? Can markets be ethical? How should wealth be distributed? We approach these themes from philosophical, sociological, and organisational perspectives, developing students' understanding of the issues through theoretical analysis, case studies and extensive discussion. As these and similar questions are addressed, students will be encouraged to reflect and draw upon their own experiences of organisational life as issues are analysed, challenged, researched, evaluated and assessed.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Mansell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Mansell, Dr P Roscoe  |               |                  |   |

## Management - MLitt International Business - 2015/6 - November 2015

| MN5515 Entrepreneurship and Business Development  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Successful creation of a new venture requires the conception of a robust, sustaining and growth oriented business model. This module involves the practical conception of such a business model and development of an actionable business plan that, taken together, constitutes a coherent and fully integrated plan for a viable, for-profit, enterprise. Students will collaborate to design a business model and then plan for a start-up business based on that model. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes in the School of Management.                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour lectures (x 11 weeks), 3-hour practical classes (x 7 weeks) |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Lovatt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Lovatt   |               |                  |   |

| MN5554 Marketing and Society  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module examines the effects of marketing on societies. The powerful social and cultural influence of marketing has been widely recognised. Through branding and communication marketing shapes consumption, identity and relationships. Our appearance, ideas and behaviour are influenced by marketing in ways more subtle and pervasive than we might think. What we eat, drink and wear; where we live and how we travel; our work and leisure; even the most intimate details of our lives respond to the powers of marketing. The future of marketing is challenged by the negative connotations of globalisation. Actions by certain firms have caused strong reactions to negative effects on workers, consumers and environments, such that a plethora of anti-corporate protest movements has been mobilised in recent decades. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management but not available to the Banking and Finance Postgraduate programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Ms J F Brooks  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Ms J F Brooks  |               |                  |   |

| MN5560 Creative Marketing Communications   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| Advertising is a permeating creative presence in developed economies, and an important, evolving part of organisations' marketing activities and integrated marketing communications programmes. The module aims to develop your understanding of advertising as an element in the integrated marketing communications mix, of how the advertising creative and planning process is practiced and managed, and the range of contemporary issues affecting decision-making in this dynamic environment. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management, but not available to the Banking and Finance Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Mr W Barlow   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr W Barlow, Dr K Myrseth   |               |                  |   |

| MN5603 Responsibility, Sustainability and Accountability in Organisations  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | not available to the Banking and Finance Postgraduate Programme  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module provides an introduction to and analysis of sustainability and corporate social responsibility, the meaning, tensions and conflicts that these concepts entail and the role that accountability can play in their achievement. The module will examine the theory and practice of social, environmental and sustainability accountability and explore and assess current experience. The module will critically but practically examine the claims made by international business in this field and explore the practical and political constraints on the organization as it seeks to address responsibility, sustainability and accountability. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MRes in Management Studies, and all other Postgraduate Programmes in the School of Management except Banking and Finance. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J Bebbington  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J Bebbington  |               |                  |   |

| MN5604 Financial Systems   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>Financial systems around the world are currently undergoing many changes. These changes arise from competition, consolidation, information technology, product and geographic expansion of manufacturing, service and financial services firms, de-regulation and re-regulation. These changes are taking place within a volatile and uncertain economic environment, and have direct implications for the development, growth and stability of financial systems. This module aims to outline the fundamentals of financial systems. A central theme running through the module is the influence of technology and innovation along with the challenges that this poses to regulators.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Chronopoulos  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr D Chronopoulos  |               |                  |   |

| MN5607 International Financial Management   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>From daily financial management to long term strategic decision making, a full understanding of international finance is essential for all business managers. This module begins with the international monetary frameworks and the conduct of monetary policies in major developed economies. An essential feature of international finance is the crucial role of foreign exchange rate when cross-border transactions and capital flows occur. The determination and forecast of exchange rates and their interdependence with interest rates is discussed, together with the international money and capital markets and capital flows. Recent decades saw an explosion of new derivative products to hedge risks and an understanding of basic derivatives such as options and future/forward is required of the modern business manager.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and seminars.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr X Chen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr X Chen  |               |                  |   |

| MN5608 Risk Management  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The last two decades have witnessed a spectacular change and growth in financial markets (equity markets, foreign exchange markets, euromarkets and international bond markets). This has brought a new breed of investors that see the role of managers as enhancing their shareholder value and protecting their wealth from potential risk. One of the challenging tasks of managers in recent years has been to manage the exposure to risks that arises from corporate decisions. The 1980s witnessed a resurgence of mergers, acquisitions and take-overs. This brought about new ways of financing such activities with project evaluation, funding and hedging have to be considered together. The principal aim of this module is to provide an introduction to managing the exposure to risk and to apply relevant theories to realistic financial decision problems. This module will also deal with assessing and measuring non-financial risks and their importance in the decision making processes within the firm.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures and tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Peralias  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Peralias  |               |                  |   |

| MN5611 Alternative Investment  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module provides students with an overview on investment opportunities alternative to the main equity and bond markets. It will critically engage students with the key characteristics and issues concerning the main alternative investment opportunities, these being Commodities, Private Equity, Real Estate and especially Hedge Funds. Furthermore, this module will introduce students to the newer alternative investments which include Investibles (e.g. wine and collectibles), Islamic Investment and Responsible Investment. This module will consider the key challenges of evaluating alternative investment portfolios' performance.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Banking and Finance Postgraduate Programme.<br>Optional for Management Studies MRes Programme, and all other Postgraduate Programmes in the School of Management. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practicals.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Bouslah   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Bouslah   |               |                  |   |

| MN5821 Managing Non-Governmental Organisations  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| Non-Governmental Organisations (NGOs) occupy distinctive roles within society, economy, and polity. Situating these organisations within their different historical and international settings, this module goes on to examine the strategic challenges face by NGOs today. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School of Management, as well as the Sustainable Development MSc Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour lectures  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Woolvin  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Woolvin  |               |                  |   |

## School of Mathematics & Statistics

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **MSc:**

**Applied Statistics and Datamining** ([link](#))

**Mathematics** ([link](#))

**Statistics** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*



## Masters in Applied Statistics and Datamining

### Programme Requirements

**Taught Element:**

90 credits: MT5753, MT5756, MT5757, MT5758, and ID5059

30 credits: from MT modules in the range MT3000 - MT4598 or MT4600 - MT5998.

Programmes of study are subject to approval by the Head of School.

**MSc:**

120 credits as for Taught Element together with a 60-credit dissertation (MT5099) comprising three months' full-time study.

### Modules

The Pre-requisites for each module may be replaced by equivalent material from other institutions.

#### Compulsory modules - Semester 1:

| MT5753 Statistical Modelling   |  |                      |                  |   |
|--|--|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm  |                      |                  |   |
| This applied statistics module covers the main aspects of linear models (LMs) and generalized linear models (GLMs). In each case the course describes model specification, various options for model selection, model assessment and tools for diagnosing model faults. Common modelling issues such as collinearity and residual correlation are also addressed, and as a consequence of the latter the Generalized Least squares (GLS) method is described. The GLM component has emphasis on models for count data and presence/absence data while GLMs for multinomial (sometimes called choice-based models) are also covered for nominal and ordinal response outcomes. The largest part of the course material is taught inside an environmental impact assessment case study with reality-based research objectives. Political and medical examples are used to illustrate the multinomial models. |  |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Applied Statistics and Datamining MSc Programme.                                  |                      |                  |   |
| <b>Anti-requisite(s):</b>  | MT4607   | <b>Required for:</b> | MT5755, MT5757   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 6 hours lectures, 1.5 hours tutorials and 6 hours practicals (x 4 weeks). |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%   |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M L MacKenzie   |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M L MacKenzie, Dr L Thomas  |                      |                  |   |

## Mathematics & Statistics - Applied Statistics and Datamining MSc - 2015/6 - November 2015

| MT5756 Data Analysis   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm  |               |                  |   |
| <p>This module provides coverage of essential statistical concepts, data manipulation and analysis methods, and software skills in commercial analysis packages. Specifically: the different types of data and their numerical/graphical treatment; data entry/import/export, basic probability theory and concepts of inference; fundamental statistical concepts with particular emphasis on sampling issues; basic statistical models and tests; introductory computer-intensive inference. The widespread commercial statistical packages SAS, SPSS are introduced and utilised with Excel for most analyses. The statistical programming language R is also given brief attention. This module is a short intensive course and is a core, preliminary, requirement for the MSc in Applied Statistics and Datamining. It covers material essential for study of the more advanced statistical methods encountered in subsequent modules.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Applied Statistics and Datamining MSc Programme. An exemption may be granted to an appropriately qualified entrant. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, tutorials and practicals for 4 weeks.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C R Donovan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C R Donovan   |               |                  |   |

### Compulsory modules - Semester 2:

| ID5059 Knowledge Discovery and Datamining  |   |               |  |   |
|--|---|---------------|--|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b>                           | 2 |
| <b>Planned timetable:</b>  | 11.00 am Mon (odd weeks), Wed and Fri   |               |  |   |
| <p>Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS.</p> |   |               |  |   |
| <b>Programme module type:</b>  | Compulsory for Applied Statistics and Datamining Postgraduate Programme<br>Optional for all Postgraduate Programmes.. |               |  |   |
| <b>Anti-requisite(s):</b>  | MT5759  |               |  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |  |   |
|  | <b>Scheduled learning:</b> 35 hours   |               | <b>Guided independent study:</b> 115 hours |   |
| <b>Assessment pattern:</b>   | <b>As defined by QAA:</b><br>Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%                |               |  |   |
|  | <b>As used by St Andrews:</b><br>2-hour Written Examination = 60%, Coursework = 40%                                   |               |  |   |
| <b>Re-Assessment:</b>  | 2-hour Written Examination = 60%, Existing Coursework = 40%   |               |  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk   |               |  |   |

## Mathematics & Statistics - Applied Statistics and Datamining MSc - 2015/6 - November 2015

| MT5757 Advanced Data Analysis  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 12.00 noon Mon (even weeks), Tue and Thu  |               |                  |   |
| <p>This module covers modern modelling methods for situations where the data fails to meet the assumptions of common statistical models and simple remedies do not suffice. This represents a lot of real world data. Methods covered include: nonlinear models; basic splines and Generalised Additive Models; Ridge Regression and Principal Components Regression; models for non-independent errors and random effects. Pragmatic data imputation is covered with associated issues. Computer intensive inference is considered throughout. Practical applications build sought-after skills in the commercial packages SAS.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | At least two of MT5751, MT5752, MT5757, MT5758 and ID5059 compulsory f<br>Compulsory for Applied Statistics and Datamining MSc Programme.<br>Optional for Statistics MSc Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 8 tutorials over the semester.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M L MacKenzie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M L MacKenzie  |               |                  |   |

| MT5758 Applied Multivariate Analysis   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am Mon (even weeks), Tue and Thu  |               |                  |   |
| <p>This module provides introductory and advanced training in the applied analysis of multivariate data. The module emphasis is upon practical analysis of data and the extraction of answers from real-life data. Basic theory is given covering matrix algebra, metrics and general measures of similarity. The most common and fundamental methods including dimension reduction and classification are covered e.g. Multivariate Analysis of Variance, Principal Components Analysis, multidimensional scaling, Factor Analysis, clustering methods. The practical component of the module focuses on analysis of real data using the commercial software tools Excel, SAS and SPSS.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Applied Statistics and Datamining MSc Programme.<br>Optional for Statistics MSc Programme.           |               |                  |   |
| <b>Anti-requisite(s):</b>  | MT4609  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10), and 4 tutorials and 4 project group meetings over the semester. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J B Illian   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J B Illian   |               |                  |   |

**Compulsory module - Whole Year:**

| MT5099 Dissertation for MSc Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                    |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the progress of the dissertation. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for MSc Programmes in Mathematics and in Statistics. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision                   |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr J D Mitchell   |               |                  |            |

**Optional modules:**

30 credits: from MT modules in the range MT3000 - MT4598 or MT4600 - MT5998.

For the available modules see: [2015/6 Honours Mathematics & Statistics](#)

## Masters in Mathematics

### Programme Requirements

**Taught Element:**

90 credits: 5000-level modules listed in this section of the Postgraduate Course Catalogue.

30 credits: from MT modules in the range MT3000 - MT4598 or MT4600 - MT5998.

Programmes of study are subject to approval by the Head of School.

**MSc:**

120 credits as for Taught Element together with a 60-credit dissertation (MT5099) comprising three months' full-time study.

## Modules

The Pre-requisites for each module may be replaced by equivalent material from other institutions.

### Compulsory module - Whole Year:

| MT5099 Dissertation for MSc Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                    |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the progress of the dissertation. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for MSc Programmes in Mathematics and in Statistics. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision                   |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr J D Mitchell   |               |                  |            |

Optional modules - Semester 1:

| MT5613 Advanced Topics in the History of Mathematics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 12.00 noon Mon (odd), Wed & Fri  |               |                  |   |
| The overall aim of the module is to give students an insight into the historical development of mathematics and an opportunity to research into one particular topic in some depth. This module is taught in parallel with MT4501. |  |               |                  |   |
| <b>Programme module type:</b>  | COptional for all Postgraduate Taught Programmes within the School of Mathematics & Statistics |               |                  |   |
| <b>Anti-requisite(s):</b>  | MT4501   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact</b> 2 lectures and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2 Class Tests = 34%, Coursework: Project = 66%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Roney-Dougal  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Roney-Dougal, Dr C Bleak, Dr J J O'Connor, Prof E F Robertson                             |               |                  |   |

| MT5753 Statistical Modelling   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm   |                      |                  |   |
| This applied statistics module covers the main aspects of linear models (LMs) and generalized linear models (GLMs). In each case the course describes model specification, various options for model selection, model assessment and tools for diagnosing model faults. Common modelling issues such as collinearity and residual correlation are also addressed, and as a consequence of the latter the Generalized Least squares (GLS) method is described. The GLM component has emphasis on models for count data and presence/absence data while GLMs for multinomial (sometimes called choice-based models) are also covered for nominal and ordinal response outcomes. The largest part of the course material is taught inside an environmental impact assessment case study with reality-based research objectives. Political and medical examples are used to illustrate the multinomial models. |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Applied Statistics and Datamining MSc Programme.<br>Compulsory for MRes in Environmental Biology and MRes in Environmental Biology Conversion for Mathematical, Physical and Molecular Sciences and MRes in Marine Mammal Science Postgraduate Programmes.<br>Optional for MRes in Ecosystem-Based Management of Marine Systems.<br>Optional for Statistics MSc Programme. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | MT4607  | <b>Required for:</b> | MT5755, MT5757   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 6 hours lectures, 1.5 hours tutorials and 6 hours practicals (x 4 weeks).  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M L MacKenzie  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M L MacKenzie, Dr L Thomas   |                      |                  |   |

| MT5809 Advanced Fluid Dynamics   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| <p>This module will examine current research in fluid dynamics, with a particular focus on meteorology and oceanography. The large-scale atmosphere and oceans behave quite unlike a 'classical' fluid owing to the presence of stable density stratification and rotation. As a result, the fluid motion is dominated by slow, 'vortical' or eddying motions (like cyclones) which generally spin slower than the Earth. Superimposed on this slow motion are relatively fast wave-like motions analogous to surface waves on a pond. These lectures describe the mathematical basis of these fundamentally different types of motion, and furthermore illustrate the increasingly important role of computer modelling in this research.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>   | 2.5-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof D G Dritschel  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof D G Dritschel  |               |                  |   |

| MT5810 Advanced Solar Theory   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 12.00 noon Mon (even weeks), Tue and Thu  |               |                  |   |
| <p>The object of this module is to describe the magnetohydrodynamic processes at work in the Sun, using modern techniques of applied mathematics, and to discuss the latest theories in relation to aspects of current research within the School.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>   | 2.5-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof C E Parnell  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof C E Parnell  |               |                  |   |

| MT5812 Advanced Financial Mathematics   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm Tue and Fri   |               |                  |   |
| <p>This module builds on the theory that has been taught in MT4551 by introducing further analytical and practical techniques that are used in the valuation and risk-management of all the mainstream vanilla and exotic derivatives in the Equity, Foreign Exchange, Fixed Income and Credit Markets. The focus will be on both understanding the theory as well as how it is applied in the real world environment of a derivatives trading desk. By means of lectures and practical assignments, students will also be introduced to Excel and the Visual Basic Programming language (as a working knowledge of these will be invaluable to anyone seeking a career in the areas of finance or business).</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all programmes in the School of Mathematics & Statistics.          |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11). |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%                              |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr W R Campbell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr W R Campbell   |               |                  |   |

| MT5824 Topics in Groups  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| <p>The overall aim of this module is to build on the foundations established in MT4003/MT4603, and take the students further into this important and beautiful branch of mathematics. More specifically, through a selection of topics, some of which will be of current research interest in St Andrews, it will introduce students to advanced techniques of handling groups and classifying them.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.             |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10), 1 tutorial and 1 examples class (weeks 2 - 11). |               |                  |   |
| <b>Assessment pattern:</b>   | 2.5-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C P Bleak  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C P Bleak  |               |                  |   |

| MT5825 Measure and Ergodic Theory   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am Mon (even weeks), Tue and Thu  |               |                  |   |
| <p>This module introduces some of the powerful techniques and ideas of modern mathematical analysis that are important both in analysis in its own right and in its many applications in mathematics and science. The module will include topics such as: measure theory, the ergodic theorem, martingale theory. Analysis is one of the active research areas within the School, and the choice of topics will reflect current activity.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework = 25%                                      |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof L Olsen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof L Olsen  |               |                  |   |



| <b>MT5831 Advanced Bayesian Inference</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am Mon (even weeks), Tue and Thu  |               |                  |   |
| This module consists of MT4531 with an additional project which will give consideration to some more advanced aspects of the theory or to the application of Bayesian techniques. This may involve either directed reading or the use of the computer for simulation or data-based analyses. The syllabus includes Bayes' theorem, inference for Normal samples; univariate Normal linear regression; principles of Bayesian computational, Markov chain Monte Carlo - theory and applications. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.             |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT4531  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 8 tutorials/practical classes over semester. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Papathomas   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Papathomas, Dr L Thomas  |               |                  |   |

| <b>MT5852 Mathematical Biology 2</b>   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 9.00 am Mon (odd weeks), Wed and Fri  |               |                  |   |
| This module will explore real world applications of mathematics to biological and medical problems e.g. cell movement, pattern formation in animal coat markings, spread of diseases (AIDS, measles). The mathematical techniques used in the modelling will be nonlinear partial differential equations. The module will be useful to students who wish to specialise in Applied Mathematics in their degree programme. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all MSc postgraduate programmes in the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 90%, Coursework (Class Test) = 10%                         |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof M Chaplain   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof M Chaplain   |               |                  |   |

Optional modules - Semester 2:

| MT5701 Advanced Statistical Inference   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am Mon (odd weeks), Wed and Fri  |               |                  |   |
| This module consists of MT4606 with the addition of directed reading on more advanced aspects of the subject and a requirement to write a review essay on an aspect of the subject. The syllabus includes: comparison of point estimators; the Rao-Blackwell Theorem; distribution theory; Fisher information and the Cramer-Rao lower bound; maximum likelihood estimation; hypothesis-testing; confidence sets. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT4606   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).    |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework: Project = 25%                            |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr I B J Goudie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr I B J Goudie  |               |                  |   |

| MT5757 Advanced Data Analysis   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon Mon (even weeks), Tue and Thu  |               |                  |   |
| This module covers modern modelling methods for situations where the data fails to meet the assumptions of common statistical models and simple remedies do not suffice. This represents a lot of real world data. Methods covered include: nonlinear models; basic splines and Generalised Additive Models; Ridge Regression and Principal Components Regression; models for non-independent errors and random effects. Pragmatic data imputation is covered with associated issues. Computer intensive inference is considered throughout. Practical applications build sought-after skills in the commercial packages SAS. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Applied Statistics and Datamining MSc Programme.<br>Optional for Statistics MSc Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 8 tutorials over the semester.                     |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M L MacKenzie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M L MacKenzie  |               |                  |   |

| <b>MT5758 Applied Multivariate Analysis</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am Mon (even weeks), Tue and Thu  |               |                  |   |
| <p>This module provides introductory and advanced training in the applied analysis of multivariate data. The module emphasis is upon practical analysis of data and the extraction of answers from real-life data. Basic theory is given covering matrix algebra, metrics and general measures of similarity. The most common and fundamental methods including dimension reduction and classification are covered e.g. Multivariate Analysis of Variance, Principal Components Analysis, multidimensional scaling, Factor Analysis, clustering methods. The practical component of the module focuses on analysis of real data using the commercial software tools Excel, SAS and SPSS.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Applied Statistics and Datamining MSc Programme.<br>Optional for Statistics MSc Programme.           |               |                  |   |
| <b>Anti-requisite(s):</b>  | MT4609  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10), and 4 tutorials and 4 project group meetings over the semester. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J B Illian   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J B Illian   |               |                  |   |

| <b>MT5802 Advanced Analytical Techniques</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon Mon (odd weeks), Wed and Fri   |               |                  |   |
| <p>This module introduces students to some further important applied analytic techniques such as Variational Calculus, Integral equations and transforms, and the theory of Steepest Descent.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework = 25%                                      |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C V Tran   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C V Tran   |               |                  |   |

| MT5806 Advanced Computational Techniques  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon Mon (even weeks), Tue and Thu   |               |                  |   |
| This module introduces students to some of the ideas, techniques and constraints that underpin modern approaches to the numerical modeling of physical processes that may be described by partial differential equations. Students will gain expertise in implementing standard methods and will submit a short dissertation together with a portfolio of computational work. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.                                    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (weeks 1 - 10) and a typical average of 0.5 hours of project supervisions (weeks 2 - 11) |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S J Brooks  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S J Brooks  |               |                  |   |

| MT5821 Advanced Combinatorics   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Availability subject to confirmation  |               |                  |   |
| <b>Planned timetable:</b>   | 12.00 noon Mon (odd weeks), Wed and Fri   |               |                  |   |
| Combinatorics underlies and interacts many topics in discrete mathematics including group theory, statistical design, and statistical mechanics, as well as being a lively subject in its own right. The module will give students a good grounding in the techniques and will engage students with research-level problems. It is designed to make a wide area of combinatorics available to students. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.     |               |                  |   |
| <b>Pre-requisite(s):</b>  | MT4514 or MT4516  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5-hour lectures (weeks 1 - 10) and 1-hour tutorial (weeks 2 - 11). |               |                  |   |
| <b>Assessment pattern:</b>  | 2.5-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P J Cameron  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof P J Cameron  |               |                  |   |

| MT5823 Semigroups   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 9.00 am Mon (odd weeks), Wed and Fri  |               |                  |   |
| The general aim of this module is to introduce students to semigroup theory, which is the study of sets with one associative binary operation defined on them. In the process, the common aims and concerns of abstract algebra will be emphasised and illustrated by drawing comparisons between semigroups, groups and rings. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics              |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10), 1 tutorial and 1 examples class (weeks 2 - 11). |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework = 25%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J D Mitchell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J D Mitchell   |               |                  |   |

| ID5059 Knowledge Discovery and Datamining  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am Mon (odd weeks), Wed and Fri  |               |                  |   |
| <p>Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Advanced Computer Science, Artificial Intelligence, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems MSc Programmes.</p> <p>Compulsory for Applied Statistics and Datamining MSc Programme.</p> <p>Optional for Statistics MSc Programme.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | MT5759   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | masters-coord-cs@st-andrews.ac.uk  |               |                  |   |

### Optional module - Semester 1 or 2:

| MT5990 Independent Study Module  |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |        |
| <p>This module provides the opportunity for a student to study an Advanced topic as a reading course under the supervision of a member of staff. The topic will be disjoint from those available in other modules.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes within the School.   |               |                  |        |
| <b>Pre-requisite(s):</b>   | Permission from the Head of School                            |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Typically 1 hour project supervisions. |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | TBC   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   |   |               |                  |        |

**Optional modules - Whole Year:**

| MT5991 Professional Skills for Mathematical Scientists   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Available only to students on an MSc Postgraduate programme or, exceptionally, on an MMath or MPhys Honours degree programme in the School   |               |                  |            |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| This module encompasses a range of skills, both generic and topic specific, together with taught components aimed at providing an appreciation of both breadth and depth of research areas in Pure or Applied Mathematics. The precise programme of study, together with the identification of the relevant software expertise required, will be determined in consultation with the student's supervisor. |  |               |                  |            |
| <b>Programme module type:</b>  | Optional for all Postgraduate programmes within the School of Mathematics & Statistics.<br>In exceptional circumstances and with the approval of the Head of School, optional for final year of MMath Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Varies. Typically 1 project supervision per week over whole year.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr J D Mitchell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | n/a  |               |                  |            |

**Optional modules:**

30 credits: from MT modules in the range MT3000 - MT4598 or MT4600 - MT5998.

For the available modules see: [2015/6 Honours Mathematics & Statistics](#)

## Masters in Statistics

### Programme Requirements

**Taught Element:**

90 credits: 5000-level modules listed in this section of the Postgraduate Course Catalogue.

30 credits: from MT modules in the range MT3000 - MT4598 or MT4600 - MT5998.

Programmes of study are subject to approval by the Head of School.

**MSc:**

120 credits as for Taught Element together with a 60-credit dissertation (MT5099) comprising three months' full-time study.

## Modules

The Pre-requisites for each module may be replaced by equivalent material from other institutions.

### Compulsory module - Whole Year:

| MT5099 Dissertation for MSc Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                    |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the progress of the dissertation. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for MSc Programmes in Mathematics and in Statistics. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision                   |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr J D Mitchell   |               |                  |            |

Optional modules - Semester 1:

| MT5613 Advanced Topics in the History of Mathematics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 12.00 noon Mon (odd), Wed & Fri  |               |                  |   |
| The overall aim of the module is to give students an insight into the historical development of mathematics and an opportunity to research into one particular topic in some depth. This module is taught in parallel with MT4501. |  |               |                  |   |
| <b>Programme module type:</b>  | COptional for all Postgraduate Taught Programmes within the School of Mathematics & Statistics |               |                  |   |
| <b>Anti-requisite(s):</b>  | MT4501   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact</b> 2 lectures and 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2 Class Tests = 34%, Coursework: Project = 66%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Roney-Dougal  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Roney-Dougal, Dr C Bleak, Dr J J O'Connor, Prof E F Robertson                             |               |                  |   |

| MT5753 Statistical Modelling   |   |                      |                  |   |
|--|---|----------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11        | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm   |                      |                  |   |
| This applied statistics module covers the main aspects of linear models (LMs) and generalized linear models (GLMs). In each case the course describes model specification, various options for model selection, model assessment and tools for diagnosing model faults. Common modelling issues such as collinearity and residual correlation are also addressed, and as a consequence of the latter the Generalized Least squares (GLS) method is described. The GLM component has emphasis on models for count data and presence/absence data while GLMs for multinomial (sometimes called choice-based models) are also covered for nominal and ordinal response outcomes. The largest part of the course material is taught inside an environmental impact assessment case study with reality-based research objectives. Political and medical examples are used to illustrate the multinomial models. |   |                      |                  |   |
| <b>Programme module type:</b>  | Compulsory for Applied Statistics and Datamining MSc Programme.<br>Compulsory for MRes in Environmental Biology and MRes in Environmental Biology Conversion for Mathematical, Physical and Molecular Sciences and MRes in Marine Mammal Science Postgraduate Programmes.<br>Optional for MRes in Ecosystem-Based Management of Marine Systems.<br>Optional for Statistics MSc Programme. |                      |                  |   |
| <b>Anti-requisite(s):</b>  | MT4607  | <b>Required for:</b> | MT5755, MT5757   |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 6 hours lectures, 1.5 hours tutorials and 6 hours practicals (x 4 weeks).  |                      |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |                      |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M L MacKenzie  |                      |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M L MacKenzie, Dr L Thomas   |                      |                  |   |



| <b>MT5809 Advanced Fluid Dynamics</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| <p>This module will examine current research in fluid dynamics, with a particular focus on meteorology and oceanography. The large-scale atmosphere and oceans behave quite unlike a 'classical' fluid owing to the presence of stable density stratification and rotation. As a result, the fluid motion is dominated by slow, 'vortical' or eddying motions (like cyclones) which generally spin slower than the Earth. Superimposed on this slow motion are relatively fast wave-like motions analogous to surface waves on a pond. These lectures describe the mathematical basis of these fundamentally different types of motion, and furthermore illustrate the increasingly important role of computer modelling in this research.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>   | 2.5-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof D G Dritschel  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof D G Dritschel  |               |                  |   |

| <b>MT5810 Advanced Solar Theory</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 12.00 noon Mon (even weeks), Tue and Thu  |               |                  |   |
| <p>The object of this module is to describe the magnetohydrodynamic processes at work in the Sun, using modern techniques of applied mathematics, and to discuss the latest theories in relation to aspects of current research within the School.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>   | 2.5-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof C E Parnell  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof C E Parnell  |               |                  |   |

| MT5812 Advanced Financial Mathematics   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm Tue and Fri   |               |                  |   |
| <p>This module builds on the theory that has been taught in MT4551 by introducing further analytical and practical techniques that are used in the valuation and risk-management of all the mainstream vanilla and exotic derivatives in the Equity, Foreign Exchange, Fixed Income and Credit Markets. The focus will be on both understanding the theory as well as how it is applied in the real world environment of a derivatives trading desk. By means of lectures and practical assignments, students will also be introduced to Excel and the Visual Basic Programming language (as a working knowledge of these will be invaluable to anyone seeking a career in the areas of finance or business).</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all programmes in the School of Mathematics & Statistics.          |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11). |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 50%, Coursework = 50%                              |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr W R Campbell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr W R Campbell   |               |                  |   |

| MT5824 Topics in Groups  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| <p>The overall aim of this module is to build on the foundations established in MT4003/MT4603, and take the students further into this important and beautiful branch of mathematics. More specifically, through a selection of topics, some of which will be of current research interest in St Andrews, it will introduce students to advanced techniques of handling groups and classifying them.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.             |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10), 1 tutorial and 1 examples class (weeks 2 - 11). |               |                  |   |
| <b>Assessment pattern:</b>   | 2.5-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C P Bleak  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C P Bleak  |               |                  |   |

| MT5825 Measure and Ergodic Theory   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am Mon (even weeks), Tue and Thu  |               |                  |   |
| <p>This module introduces some of the powerful techniques and ideas of modern mathematical analysis that are important both in analysis in its own right and in its many applications in mathematics and science. The module will include topics such as: measure theory, the ergodic theorem, martingale theory. Analysis is one of the active research areas within the School, and the choice of topics will reflect current activity.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework = 25%                                      |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof L Olsen  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof L Olsen  |               |                  |   |

| MT5831 Advanced Bayesian Inference  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am Mon (even weeks), Tue and Thu  |               |                  |   |
| This module consists of MT4531 with an additional project which will give consideration to some more advanced aspects of the theory or to the application of Bayesian techniques. This may involve either directed reading or the use of the computer for simulation or data-based analyses. The syllabus includes Bayes' theorem, inference for Normal samples; univariate Normal linear regression; principles of Bayesian computational, Markov chain Monte Carlo - theory and applications. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.             |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT4531  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 8 tutorials/practical classes over semester. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M Papathomas   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Papathomas, Dr L Thomas  |               |                  |   |

| MT5852 Mathematical Biology 2  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 9.00 am Mon (odd weeks), Wed and Fri  |               |                  |   |
| This module will explore real world applications of mathematics to biological and medical problems e.g. cell movement, pattern formation in animal coat markings, spread of diseases (AIDS, measles). The mathematical techniques used in the modelling will be nonlinear partial differential equations. The module will be useful to students who wish to specialise in Applied Mathematics in their degree programme. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for all MSc postgraduate programmes in the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 90%, Coursework (Class Test) = 10%                         |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof M Chaplain   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof M Chaplain   |               |                  |   |

Optional modules - Semester 2:

| MT5701 Advanced Statistical Inference   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am Mon (odd weeks), Wed and Fri  |               |                  |   |
| This module consists of MT4606 with the addition of directed reading on more advanced aspects of the subject and a requirement to write a review essay on an aspect of the subject. The syllabus includes: comparison of point estimators; the Rao-Blackwell Theorem; distribution theory; Fisher information and the Cramer-Rao lower bound; maximum likelihood estimation; hypothesis-testing; confidence sets. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT4606   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 0.5 tutorial (weeks 2 - 11).    |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework: Project = 25%                            |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr I B J Goudie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr I B J Goudie  |               |                  |   |

| MT5757 Advanced Data Analysis   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon Mon (even weeks), Tue and Thu  |               |                  |   |
| This module covers modern modelling methods for situations where the data fails to meet the assumptions of common statistical models and simple remedies do not suffice. This represents a lot of real world data. Methods covered include: nonlinear models; basic splines and Generalised Additive Models; Ridge Regression and Principal Components Regression; models for non-independent errors and random effects. Pragmatic data imputation is covered with associated issues. Computer intensive inference is considered throughout. Practical applications build sought-after skills in the commercial packages SAS. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Applied Statistics and Datamining MSc Programme.<br>Optional for Statistics MSc Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 8 tutorials over the semester.                     |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M L MacKenzie  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M L MacKenzie  |               |                  |   |

| MT5758 Applied Multivariate Analysis   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am Mon (even weeks), Tue and Thu  |               |                  |   |
| <p>This module provides introductory and advanced training in the applied analysis of multivariate data. The module emphasis is upon practical analysis of data and the extraction of answers from real-life data. Basic theory is given covering matrix algebra, metrics and general measures of similarity. The most common and fundamental methods including dimension reduction and classification are covered e.g. Multivariate Analysis of Variance, Principal Components Analysis, multidimensional scaling, Factor Analysis, clustering methods. The practical component of the module focuses on analysis of real data using the commercial software tools Excel, SAS and SPSS.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Applied Statistics and Datamining MSc Programme.<br>Optional for Statistics MSc Programme.           |               |                  |   |
| <b>Anti-requisite(s):</b>  | MT4609  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10), and 4 tutorials and 4 project group meetings over the semester. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 50%, Coursework = 50%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J B Illian   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J B Illian   |               |                  |   |

| MT5802 Advanced Analytical Techniques   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon Mon (odd weeks), Wed and Fri   |               |                  |   |
| <p>This module introduces students to some further important applied analytic techniques such as Variational Calculus, Integral equations and transforms, and the theory of Steepest Descent.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 tutorial (weeks 2 - 11).       |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework = 25%                                      |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C V Tran   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C V Tran   |               |                  |   |

## Mathematics & Statistics - Statistics MSc 2015/6 - November 2015

| MT5806 Advanced Computational Techniques  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon Mon (even weeks), Tue and Thu   |               |                  |   |
| This module introduces students to some of the ideas, techniques and constraints that underpin modern approaches to the numerical modeling of physical processes that may be described by partial differential equations. Students will gain expertise in implementing standard methods and will submit a short dissertation together with a portfolio of computational work. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.                                    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (weeks 1 - 10) and a typical average of 0.5 hours of project supervisions (weeks 2 - 11) |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S J Brooks  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S J Brooks  |               |                  |   |

| MT5821 Advanced Combinatorics   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Availability subject to confirmation  |               |                  |   |
| <b>Planned timetable:</b>   | 12.00 noon Mon (odd weeks), Wed and Fri   |               |                  |   |
| Combinatorics underlies and interacts many topics in discrete mathematics including group theory, statistical design, and statistical mechanics, as well as being a lively subject in its own right. The module will give students a good grounding in the techniques and will engage students with research-level problems. It is designed to make a wide area of combinatorics available to students. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.     |               |                  |   |
| <b>Pre-requisite(s):</b>  | MT4514 or MT4516  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5-hour lectures (weeks 1 - 10) and 1-hour tutorial (weeks 2 - 11). |               |                  |   |
| <b>Assessment pattern:</b>  | 2.5-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P J Cameron  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof P J Cameron  |               |                  |   |

| <b>MT5823 Semigroups</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 9.00 am Mon (odd weeks), Wed and Fri  |               |                  |   |
| The general aim of this module is to introduce students to semigroup theory, which is the study of sets with one associative binary operation defined on them. In the process, the common aims and concerns of abstract algebra will be emphasised and illustrated by drawing comparisons between semigroups, groups and rings. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School of Mathematics & Statistics              |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10), 1 tutorial and 1 examples class (weeks 2 - 11). |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework = 25%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J D Mitchell   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J D Mitchell   |               |                  |   |

| <b>ID5059 Knowledge Discovery and Datamining</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Mon (odd weeks), Wed and Fri   |               |                  |   |
| Contemporary data collection can be automated and on a massive scale e.g. credit card transaction databases. Large databases potentially carry a wealth of important information that could inform business strategy, identify criminal activities, characterise network faults etc. These large scale problems may preclude the standard carefully constructed statistical models, necessitating highly automated approaches. This module covers many of the methods found under the banner of "Datamining", building from a theoretical perspective but ultimately teaching practical application. Topics covered include: historical/philosophical perspectives, model selection algorithms and optimality measures, tree methods, bagging and boosting, neural nets, and classification in general. Practical applications build sought-after skills in the commercial packages SAS and SPSS. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Advanced Computer Science, Artificial Intelligence, Networks and Distributed Systems, Software Engineering and Erasmus Mundus Dependable Software Systems MSc Programmes.<br>Compulsory for Applied Statistics and Datamining MSc Programme.<br>Optional for Statistics MSc Programme. |               |                  |   |
| <b>Anti-requisite(s):</b>   | MT5759  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lectures, seminars, tutorials and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | masters-coord-cs@st-andrews.ac.uk   |               |                  |   |

**Optional module - Semester 1 or 2:**

| MT5990 Independent Study Module   |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |        |
| This module provides the opportunity for a student to study an Advanced topic as a reading course under the supervision of a member of staff. The topic will be disjoint from those available in other modules. |   |               |                  |        |
| <b>Programme module type:</b>   | Optional for all Postgraduate Programmes within the School.   |               |                  |        |
| <b>Pre-requisite(s):</b>  | Permission from the Head of School                            |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Typically 1 hour project supervisions. |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  |   |               |                  |        |

**Optional modules - Whole Year:**

| MT5991 Professional Skills for Mathematical Scientists   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Available only to students on an MSc Postgraduate programme or, exceptionally, on an MMath or MPhys Honours degree programme in the School   |               |                  |            |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| This module encompasses a range of skills, both generic and topic specific, together with taught components aimed at providing an appreciation of both breadth and depth of research areas in Pure or Applied Mathematics. The precise programme of study, together with the identification of the relevant software expertise required, will be determined in consultation with the student's supervisor. |  |               |                  |            |
| <b>Programme module type:</b>  | Optional for all Postgraduate programmes within the School of Mathematics & Statistics.<br>In exceptional circumstances and with the approval of the Head of School, optional for final year of MMath Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Varies. Typically 1 project supervision per week over whole year.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr J D Mitchell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | n/a  |               |                  |            |

**Optional modules:**

30 credits: from MT modules in the range MT3000 - MT4598 or MT4600 - MT5998.

For the available modules see: [2015/6 Honours Mathematics & Statistics](#)



## School of Medicine

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **MSc:**

**Global Health Implementation** (*see section 15*)

**Health Psychology** (*see section 15*)

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## School of Modern Languages

### Taught Programmes

*Click on title to jump to detailed pdf of that programme*

#### **MLitt:**

**Central and Eastern European Studies** (*see section 15*)

**Comparative Literature** ([link](#))

**Cultural Identity Studies** ([link](#))

**French Studies** ([link](#))

**German Studies** ([link](#))

**Italian Studies** ([link](#))

**Mediaeval Studies** (*see section 15*)

**Middle Eastern Literary and Cultural Studies** ([link](#))

**Russian Studies** ([link](#))

**Spanish and Latin American Studies** ([link](#))

#### **MLitt Mundus Masters (EU):**

**Crossways in Cultural Narratives** ([link](#))

#### **MLitt/MA:**

**German and Comparative Literature** ([link](#))

**MPhil:**

**Arabic**

**Central and Eastern European Studies** ([see section 15](#))

**Comparative Literature** ([link](#))

**Cultural Identity Studies** ([link](#))

**French** ([link](#))

**German** ([link](#))

**Hispanic Studies** ([link](#))

**Italian** ([link](#))

**Mediaeval Studies** ([see section 15](#))

**Middle Eastern Literary and Cultural Studies** ([link](#))

**Russian Studies** ([link](#))

**Spanish and Latin American Studies** ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Comparative Literature

**Taught Element:**

80 credits: CO5001, CO5002, ML5001 and ML5004

40 credits: Subject to availability AP5013, AP5014, FR5013, FR5014, GM5013, GM5014, IT5013, IT5014, ML5006, ML5105, ML5201, RU5013, RU5014, SP5013, SP5014. Modules from other Schools may also be taken with the permission of the Course Co-ordinator and the Director of Postgraduate Studies of the School concerned.

**MLitt:**

120 credits as for Taught Element plus ML5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| CO5001 Apples and Oranges: Issues in Comparative Literature   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module will explore the most pressing questions which arise when different texts are put in contact, using pairings of texts to reflect on different kinds of relations, such as clashes, genetic, interdisciplinary and intermedial relations. Students are expected to find further texts to "prolong" the comparison in a meaningful way, drawing on their respective expertise in different languages, thus developing an in-depth understanding of methods and theoretical frameworks in Comparative Literature. The module will be based on three disciplines (including but not limited to Arabic, French, German, Italian, Russian, Spanish). Translations of the core texts discussed in class will be available. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Comparative Literature and German and Comparative Literature Postgraduate Programmes.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours (lectures and seminars)  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Talajooy   |               |                  |   |

## Modern Languages - Comparative Literature MLitt & MPhil 2015/6 - November 2015

| CO5002 The Contemporary Canon: Why Books Sell  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The module analyses the meaning of the word 'contemporary' as applied to literary texts, exploring questions such as: does 'contemporary' signify '10 years ago' or '10 months ago'? Who decides? (e.g. which institutions and market forces?); Does this differ from one European country to another? From one genre to another? A range of theories of canon-formation are assessed in terms of their viability vis-à-vis contemporary literature: can there be a truly contemporary canon? What is the role of publishing houses, retailers, literary prizes, the internet and social networking sites in constructing 'today's canon'? The module will be based on three disciplines (including but not limited to Arabic, French, German, Italian, Persian, Russian, Spanish) and will combine theory with a number of case studies.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Comparative Literature Postgraduate Programmes.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours (lectures and seminars)  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Talajooy   |               |                  |   |

| ML5001 Literary and Cultural Theory (1)   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module and its partner module ML5002 seek to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for German and Comparative Literature Postgraduate Programme.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lecture/seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Hugueny-Legér  |               |                  |   |

## Modern Languages - Comparative Literature MLitt & MPhil 2015/6 - November 2015

| ML5004 Research and Professional Skills  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces students to a range of skills which are essential to advanced researchers and key to many other non-academic workplaces. We will focus on analytic and critical skills (for instance writing abstracts; critically reviewing articles and research seminar presentations; producing a research poster); oral skills (presentations; asking questions in research seminars); group work (planning a conference); IT research skills. The skills sessions will be tailored to suit modern linguists and comparatists. Seminar preparation and coursework will be directly linked to individual students' own research interests. First year PhD students are invited to audit some part of the programme, adding a valuable component of peer input to the module.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours (seminars and practical classes)  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof W Fowler  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

| ML5099 Dissertation for MLitt Programme/s  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.   |               |                  |            |
| <p>Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August.</p> |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Comparative Literature and Cultural Identity Studies MLitt Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>  | ML5199   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.   |               |                  |            |
| <b>Assessment pattern:</b>   | Dissertation = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Head of relevant Department  |               |                  |            |

Optional modules:

| AP5013 Middle Eastern Literary and Cultural Contexts (20)  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| The module provides students with a comprehensive knowledge of important elements of classical and modern Arabic and Persian literatures and cultures from pre-Islamic times to the present. Students will be exposed to a greater variety of literary texts than at undergraduate level and some of these key texts will be explored in detail. Students will be expected to read some key texts in Arabic or Persian depending on their language choice. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Pre-requisite(s):</b>   | First degree in Arabic or Persian or similar knowledge of Arabic or Persian [classical and/or modern standard Arabic or Persian].   |               |                  |   |
| <b>Anti-requisite(s):</b>  | AP5011  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar (x 11 weeks) and 2 lectures over the semester  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Talajooy   |               |                  |   |

| AP5014 Specialised Research in Middle Eastern Literatures and Cultures  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module provides the opportunity for postgraduate students to develop their skills of literary and textual analysis through directed reading on a topic of their choice. They will be able to study an author or selection of Arab or Persian authors from the classical or modern period and learn to generate original research questions on topics as varied as the pre-Islamic poetry and the Arab or Persian novel or drama. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Middle Eastern Literary and Cultural Studies Postgraduate Programmes.<br>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 6 tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Talajooy  |               |                  |   |

## Modern Languages - Comparative Literature MLitt & MPhil 2015/6 - November 2015

| FR5013 French Literary Revolutions (20)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module will enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the French-speaking lands from the Renaissance to the present day. It draws on the expertise of researchers in the Dept of French, and concentrates on the research-led study of major conflicts and continuities in the cultural, literary or intellectual history of the French-speaking lands. The conflicts and continuities studied will vary from year to year but may include: ancients and moderns in the Renaissance, C17th theatrical controversies, Enlightenment travel literature, the Romantic revolution, Symbolism and Decadence, C20th representations of war, literature and philosophy, autofiction and C21st movements such as littérature monde.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | FR5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and lectures.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Laügt   |               |                  |   |

| FR5014 Specialised Research in French Studies  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of French for the exploration of a relevant topic in some depth. Potential subjects of study could include, for example, literature and culture of the Renaissance, C17th-C20th theatre, literature and ideas of the Enlightenment, C19th and C20th literature, culture, politics and society, music and poetry, autobiography, C21st literature, modern French thought, cinematic adaptations of French novels. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of readings.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for French Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Laügt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |



## Modern Languages - Comparative Literature MLitt & MPhil 2015/6 - November 2015

| GM5013 German Literary and Cultural Contexts (20)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module seeks to enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the German-speaking lands from the Middle Ages to the present day. It draws on the expertise of academic teachers in the Department of German, and concentrates on the research-led study of selected turning points in the cultural, literary or intellectual history of the German-speaking lands. The turning points studied will vary but may include: Early Modern print culture, the making of German letters, the 'Sattelzeit' around 1800, urban modernisms around 1900, the Weimar Republic, Stunde Null and the radical contemporary.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | GM5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

| GM5014 Specialised Research in German Studies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module provides the opportunity for postgraduate students to develop their skills of literary and textual analysis through directed reading on a topic of their choice. They will be able to study an author, discursive genre, or school in German literature, cultural studies or theory from the Medieval age to the modern day, and learn to generate original research questions on their chosen topic.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for German Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

## Modern Languages - Comparative Literature MLitt & MPhil 2015/6 - November 2015

| IT5013 Italian Literary and Cultural Contexts (20)  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Italians: who are they and how is that decided? A young country with a long history, the problem of Italian identity predates the formation of the Italian State and remains unresolved in the twenty-first century. This module investigates the issue through seminal works by Italian writers from the thirteenth century to the present day. The idea of Italy and Italians has been largely located in literature and culture, the study of which is fundamental for any understanding of the reality of Italy, and forms an exemplary case study in the often contested construction of a national identity.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | IT5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

| IT5014 Specialised Research in Italian Studies  |  |               |                  |                      |
|---|--|---------------|------------------|----------------------|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 & 2 (taught twice) |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |                      |
| <p>This module allows students to pursue in greater depth more particular interests which fit with areas of expertise among the academic staff in Italian. This will take the form of extended study of individual authors, or topics, in or across historical periods. Typical areas of study might be Renaissance humanism, 20th Century Italian poetry, Postcolonial Italy, Freudian and post-Freudian psychoanalytic literary theory, Love in Early Italian literature, gender and sexuality in Italian film; or the in-depth study of individual writers or directors.</p> |  |               |                  |                      |
| <b>Programme module type:</b>   | <p>Compulsory for Italian Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students in outside Modern Languages with permission of both Schools.</p> |               |                  |                      |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |                      |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |                      |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |                      |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |                      |

## Modern Languages - Comparative Literature MLitt & MPhil 2015/6 - November 2015

| ML5105 Europe and America: Dialogues and Identity Formation in Text, Film and Theory  |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | 11.00 am Tue and Wed  |               |                  |        |
| <p>This module will focus on the relationship between Europe and the Americas (i.e. Latin and North America, including Canada). It will explore the ways in which European authors and thinkers encounter, embrace, oppose or reject American cultures, politics and values, and how American authors in turn react to European influences. The subject will be studied through a range of literary, filmic and theoretical approaches generated in France, Germany, Spain, Italy and Russia, as well as in Latin and North America, from the discovery of the New World to the 21st century. More particularly, this module will invite students to further their awareness and understanding of the notions of identity and power at play in the many different discourses generated in Europe about America as well as different axes or networks of dialogue between North America, Latin America and Europe.</p> |   |               |                  |        |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1.5 hours comprising a combination of lectures and seminars.   |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |        |

| ML5201 Film and Issues of European Identity   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm Tue and Wed   |               |                  |   |
| <p>A team-taught interdisciplinary module, designed to give an introduction to some central issues in the theory and practice of cinema. Issues covered characteristically include identities, the relation of political power to the cinema, film narrative, gender issues and representation, cinema realism and semiotics. The topics will be drawn from a list including film theory and the philosophy of film, and from aspects of French, Italian, Spanish, German and/or Soviet film. The availability of the module in any given year will be conditional on adequate student numbers.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 22 hours over semester.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |

## Modern Languages - Comparative Literature MLitt & MPhil 2015/6 - November 2015

| <b>RU5013 Generations in Russian Literature and Culture (20)</b>  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Generations in Russian Literature and Culture: Metaphors of kinship have proven remarkably robust in the history of pre-revolutionary Russia and the Soviet and post-Soviet states, providing means for writers to conceptualise their relationship with their literary predecessors (father/son, uncle/nephew, for example), to imagine the nation in either epic (fatherland) or lyrical (motherland) terms, and, in the Soviet period, for the political authorities to develop discourses of (filial) loyalty and betrayal. This module investigates issues in Russian culture and history through the lens of genealogy, drawing on the expertise of researchers in the Department of Russian in order to broaden and deepen students' understanding of the Russian experience from the nineteenth century to the modern day.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | RU5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

| <b>RU5014 Specialised Research in Russian Studies</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of Russian for the exploration of a relevant topic in some depth. Potential subjects of study might cover, for example, the work of a single author like Anton Chekhov or Andrei Belyi, the development of a single genre like the historical novel or political drama, or the ramifications of a period concept like the Russian Golden Age or the Silver Age. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of directed reading.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Russian Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies, and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Finer   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

## Modern Languages - Comparative Literature MLitt & MPhil 2015/6 - November 2015

| SP5013 Patterns in Hispanic Literature and Film (20)   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module is a high-level introduction to research areas of Hispanic literature and film. The approach is through “national themes”, which may vary from year to year, traceable within Spanish and Spanish American culture. One such theme is the journey, a subject associated with some of the greatest texts in Spanish, such as Poema de Mio Cid, a story of reconquest and honour retrieval set at the start of Spain and the Castilian language; Don Quijote, a journey of self-realisation in the face of modernity; or Pedro Páramo, a pilgrimage to the personal roots of the protagonist as well as of Mexico. This module is a 20-credit version of SP5011.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | SP5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C O’Leary   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

| SP5014 Specialised Research in Spanish and/or Latin American Studies  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of Spanish for the exploration of a relevant topic in some depth. Potential subjects of study could include, for example, the work of a single author such as Juan Carlos Onetti, Gertrudis Gómez de Avellaneda or Jorge Luis Borges, or topics such as slavery in nineteenth century Spanish literature or the representation of the city in Latin American film, art and texts. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of readings.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Spanish and Latin American Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C O’Leary   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

## Mundus Masters in Crossways in Cultural Narratives

### EU-funded Crossways in Cultural Narratives Mundus Masters programme

MLitt Mundus Masters:

#### Two-year course, consisting of four semesters:

Students may elect to split their studies between partner institutions in one of the following configurations, gaining 120 ECTS credits in total (equivalent to 240 St Andrews credits), with a third of these credits taken at St Andrews.

#### EITHER

Year 1, Semester 1 in St Andrews (followed by three semesters elsewhere):

20 credits comprising ML5001;

20 credits recommended from a dip-down undergraduate language module (chosen from French (FR), Italian (IT), Spanish (SP)) at the level appropriate to the student's level of proficiency, including ML3003 if necessary.

Further credits from, AP5011, AP5013, CO5001, FR5011, FR5013, GM5011, GM5013, IT5011, IT5013, ML5006, ML5105, RU5011, RU5013, SP5011, SP5013 to a total of 60 at St Andrews, except that 20 of these credits may be taken from another subject or School with permission of the Local Programme Coordinator and the other School, if applicable.

#### OR

Year 1, Semester 2 and Year 2, Semester 1 in St Andrews (the other two semesters elsewhere). *This is the option for students choosing St Andrews as their "home" university:*

20 credits comprising ML5104 or (ML5106 and ML5108);

20 credits comprising ML5107

Further credits recommended from ML5001 (unless equivalent training gained in a partner institution), ML5004, ML5006, ML5007, ML5105; or from AP5011, AP5013, AP5014, CO5001, CO5002, FR5011, FR5013, FR5014, GM5011, GM5013, GM5014, IT5011, IT5013, IT5014, RU5011, RU5013, RU5014, SP5011, SP5013, SP5014, to a total of 120 at St Andrews, except that 20 of these credits may be taken from another subject or School with permission of the Local Programme Coordinator and the other School, if applicable.

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#### OR

Year 2, Semester 2 in St Andrews (preceded by three semesters elsewhere):

40 credits comprising ML5199;

20 credits from AP5014, CO5002, FR5014, GM5014, IT5014, ML5004, ML5007, ML5201, RU5014, SP5014 or from another subject or School with permission of the Local Programme Coordinator and the other School, if applicable.

**Compulsory modules (depending on pathway):**

| <b>ML5001 Literary and Cultural Theory (1)</b>  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module and its partner module ML5002 seek to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for German and Comparative Literature Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lecture/seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Hugueny-Legér   |               |                  |   |

| <b>ML5104 Dissertation Report (Mundus)</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The Semester 2 Dissertation Report (10 ECTS) is an extended scholarly essay of approximately 10,000 words, reviewing the critical material available and outlining a first approach to the research topic to be addressed in the Masters Dissertation. The student collects the necessary data and performs the following specified operations: (i) determination and evaluation of a corpus of primary material, together with a first effort of analysis designed to explore and demonstrate the potential of the subject; (ii) bibliographical survey of secondary sources, analysing and evaluating all critical material to be used; (iii) definition of perspectives of approach and methodology to be followed by the 30 ECTS Dissertation; (iv) delimitation of the subject and determination of title, together with a proposed plan.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | One of two compulsory elements in Crossways in Cultural Narratives Mundus Postgraduate Programme. (The alternative is the pair ML5106 and ML5108) |               |                  |   |
| <b>Pre-requisite(s):</b>  | Admission to Crossways in Cultural Narratives Mundus Masters programme  |               |                  |   |
| <b>Anti-requisite(s):</b>   | ML5009, ML5106, ML5108  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 5 - 10 hours over semester.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Evans  |               |                  |   |

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| <b>ML5106 Short Dissertation Report (Master Mundus)</b>  |   |                           |                    |
|--|---|---------------------------|--------------------|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11             | <b>Semester:</b> 2 |
| <b>Planned timetable:</b>  | To be arranged.   |                           |                    |
| <p>The Semester 2 Short Dissertation Report (5 ECTS) is an extended scholarly essay of approximately 6,000 words, reviewing the critical material available and outlining a first approach to the research topic to be addressed in the Masters Dissertation. The student collects the necessary data and performs the following specified operations: (i) determination and evaluation of a corpus of primary material, together with a first effort of analysis designed to explore and demonstrate the potential of the subject ; (ii) bibliographical survey of secondary sources, analysing and evaluating all critical material to be used; (iii) definition of perspectives of approach and methodology to be followed by the 30 ECTS Dissertation; (iv) delimitation of the subject and determination of title, together with a proposed plan.</p> |   |                           |                    |
| <b>Programme module type:</b>  | Together with ML5108, one of two compulsory elements in Crossways in Cultural Narratives Mundus Postgraduate Programme. (The alternative is ML5104) |                           |                    |
| <b>Pre-requisite(s):</b>   | 80 credits in modules from another university in the Crossways Consortium taken in Semester 1 abroad.   |                           |                    |
| <b>Co-requisite(s):</b>  | ML5108  | <b>Anti-requisite(s):</b> | ML5104             |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 5 - 10 hours over semester.  |                           |                    |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                           |                    |
| <b>Module Co-ordinator:</b>  | Dr D Evans  |                           |                    |

| <b>ML5107 Dissertation Progress (Mundus)</b>   |   |                         |                    |
|--|---|-------------------------|--------------------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11           | <b>Semester:</b> 1 |
| <p>This module is part of a series of three devoted to the research leading to the Mundus Dissertation. It comes after ML5104 Mundus Dissertation Report and before ML5199 Mundus Dissertation. It consists of a series of one-to-one meetings with the supervisor in which specific areas and issues of the topic are explored. The module outcome is twofold: (i) a 5,000-word piece of writing which is consistent with the work to be carried out in the Dissertation, such as a literature review or a first full draft of a chapter, or shorter versions of more than one; and (ii) an oral presentation where the student provides a summary of the progress achieved towards the Dissertation during the semester and pointing to work that is to be embarked upon during the next and final semester.</p> |   |                         |                    |
| <b>Programme module type:</b>  | Compulsory for Crossways Master Mundus programme. |                         |                    |
| <b>Pre-requisite(s):</b>   | ML5104  | <b>Co-requisite(s):</b> | ML5199             |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 6 tutorials over semester. |                         |                    |
| <b>Assessment pattern:</b>   | Coursework = 100%                                 |                         |                    |
| <b>Module Co-ordinator:</b>  | Dr D Evans  |                         |                    |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |                         |                    |



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| ML5108 Work-Related Project (Master Mundus)  |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |                           |                  |   |
| <p>This module provides the student with the opportunity to engage with the world of employment via a placement and/or project and thus to explore the application of the academic and intellectual skills gained on the course. It is a compulsory part of semester 2 of the Master Mundus in Crossways in Cultural Narratives and the work is carried out either during term time or for a period of up to four weeks in the summer between semesters 2 and 3.</p> |   |                           |                  |   |
| <b>Programme module type:</b>  | Together with ML5106, one of two compulsory elements in Crossways in Cultural Narratives Mundus Postgraduate Programme. (the alternative is ML5104) |                           |                  |   |
| <b>Pre-requisite(s):</b>   | 80 credits in modules from another university in the Crossways Consortium taken in Semester 1 abroad.   |                           |                  |   |
| <b>Co-requisite(s):</b>  | ML5106  | <b>Anti-requisite(s):</b> | ML5104           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual tutorial meetings.  |                           |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr V Donovan  |                           |                  |   |

| ML5199 Mundus Dissertation  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| <p>This 20 ECTS (40 SCOTCAT credit) module is a compulsory 20,000 word dissertation written on an approved topic as the culmination of the EU-funded Mundus Masters programme. Normally, it is written at the third University of the student's study itinerary during Semester 4 of the programme. In the one-year, direct entry variant of the programme, it is prepared during the 'trailing semester' (non-residential) which runs from the end of semester 2 to the following 31 September. In both cases, it is written in one of the principal languages of study (not necessarily in the language of the country of study) and is supervised by a 'principal' and a 'support' supervisor from two Universities of the Consortium.</p> |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Crossways in Cultural Narratives Mundus Postgraduate Programme |               |                  |            |
| <b>Pre-requisite(s):</b>  | Admission to Crossways in Cultural Narratives Mundus Masters programme        |               |                  |            |
| <b>Anti-requisite(s):</b>   | ML5099  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 seminars and 3 tutorials over semester.              |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr D Evans  |               |                  |            |

Optional modules:

| AP5011 Middle Eastern Literary and Cultural Contexts (40)  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| The module provides students with a comprehensive knowledge of important elements of classical and modern Arabic and Persian literatures and cultures from pre-Islamic times to the present. Students will be exposed to a greater variety of literary texts than at undergraduate level and some of these key texts will be explored in detail. Students will be expected to read some key texts in Arabic or Persian depending on their language choice. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Middle Eastern Literary and Cultural Studies Postgraduate Programme.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.<br>Optional for other MLitt students in outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Pre-requisite(s):</b>   | First degree in Arabic or Persian or similar knowledge of Arabic or Persian [classical and/or modern standard Arabic or Persian]  |               |                  |   |
| <b>Anti-requisite(s):</b>  | AP5013  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 - 2 seminars per week and 3 lectures over the semester.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Talajooy   |               |                  |   |

| AP5013 Middle Eastern Literary and Cultural Contexts (20)  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| The module provides students with a comprehensive knowledge of important elements of classical and modern Arabic and Persian literatures and cultures from pre-Islamic times to the present. Students will be exposed to a greater variety of literary texts than at undergraduate level and some of these key texts will be explored in detail. Students will be expected to read some key texts in Arabic or Persian depending on their language choice. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Pre-requisite(s):</b>   | First degree in Arabic or Persian or similar knowledge of Arabic or Persian [classical and/or modern standard Arabic or Persian].   |               |                  |   |
| <b>Anti-requisite(s):</b>  | AP5011  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar (x 11 weeks) and 2 lectures over the semester  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Talajooy   |               |                  |   |

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| AP5014 Specialised Research in Middle Eastern Literatures and Cultures  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module provides the opportunity for postgraduate students to develop their skills of literary and textual analysis through directed reading on a topic of their choice. They will be able to study an author or selection of Arab or Persian authors from the classical or modern period and learn to generate original research questions on topics as varied as the pre-Islamic poetry and the Arab or Persian novel or drama. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Middle Eastern Literary and Cultural Studies Postgraduate Programmes.<br>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 6 tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Talajooy  |               |                  |   |

| CO5001 Apples and Oranges: Issues in Comparative Literature   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module will explore the most pressing questions which arise when different texts are put in contact, using pairings of texts to reflect on different kinds of relations, such as clashes, genetic, interdisciplinary and intermedial relations. Students are expected to find further texts to "prolong" the comparison in a meaningful way, drawing on their respective expertise in different languages, thus developing an in-depth understanding of methods and theoretical frameworks in Comparative Literature. The module will be based on three disciplines (including but not limited to Arabic, French, German, Italian, Russian, Spanish). Translations of the core texts discussed in class will be available. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Comparative Literature and German and Comparative Literature Postgraduate Programmes.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours (lectures and seminars)  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Talajooy   |               |                  |   |

| CO5002 The Contemporary Canon: Why Books Sell  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The module analyses the meaning of the word 'contemporary' as applied to literary texts, exploring questions such as: does 'contemporary' signify '10 years ago' or '10 months ago'? Who decides? (e.g. which institutions and market forces?); Does this differ from one European country to another? From one genre to another? A range of theories of canon-formation are assessed in terms of their viability vis-à-vis contemporary literature: can there be a truly contemporary canon? What is the role of publishing houses, retailers, literary prizes, the internet and social networking sites in constructing 'today's canon'? The module will be based on three disciplines (including but not limited to Arabic, French, German, Italian, Persian, Russian, Spanish) and will combine theory with a number of case studies.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Comparative Literature Postgraduate Programmes.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours (lectures and seminars)  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Talajooy   |               |                  |   |

| FR5011 French Literary Revolutions (40)   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>French Literary Revolutions: this module will enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the French-speaking lands from the Renaissance to the present day. It draws on the expertise of researchers in the Dept of French, and concentrates on the research-led study of major conflicts and continuities in the cultural, literary or intellectual history of the French-speaking lands. The conflicts and continuities studied will vary from year to year but may include: ancients and moderns in the Renaissance, C17th theatrical controversies, Enlightenment travel literature, the Romantic revolution, Symbolism and Decadence, C20th representations of war, literature and philosophy, autofiction and C21st movements such as littérature monde.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for French Studies Postgraduate Programme.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Anti-requisite(s):</b>   | FR5013  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Laügt  |               |                  |   |

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| FR5013 French Literary Revolutions (20)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module will enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the French-speaking lands from the Renaissance to the present day. It draws on the expertise of researchers in the Dept of French, and concentrates on the research-led study of major conflicts and continuities in the cultural, literary or intellectual history of the French-speaking lands. The conflicts and continuities studied will vary from year to year but may include: ancients and moderns in the Renaissance, C17th theatrical controversies, Enlightenment travel literature, the Romantic revolution, Symbolism and Decadence, C20th representations of war, literature and philosophy, autofiction and C21st movements such as littérature monde.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | FR5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and lectures.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Laügt   |               |                  |   |

| FR5014 Specialised Research in French Studies  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of French for the exploration of a relevant topic in some depth. Potential subjects of study could include, for example, literature and culture of the Renaissance, C17th-C20th theatre, literature and ideas of the Enlightenment, C19th and C20th literature, culture, politics and society, music and poetry, autobiography, C21st literature, modern French thought, cinematic adaptations of French novels. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of readings.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for French Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Laügt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

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| <b>GM5011 German Literary and Cultural Contexts: Turning Points (40)</b>   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module seeks to enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the German-speaking lands from the Middle Ages to the present day. It draws on the expertise of academic teachers in the Department of German, and concentrates on the research-led study of selected turning points in the cultural, literary or intellectual history of the German-speaking lands. The turning points studied will vary but may include: Early Modern print culture, the making of German letters, the 'Sattelzeit' around 1800, urban modernisms around 1900, the Weimar Republic, Stunde Null and the radical contemporary.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for German Studies Postgraduate Programme.</p> <p>Optional for German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students in outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | GM5013  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

| <b>GM5013 German Literary and Cultural Contexts (20)</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module seeks to enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the German-speaking lands from the Middle Ages to the present day. It draws on the expertise of academic teachers in the Department of German, and concentrates on the research-led study of selected turning points in the cultural, literary or intellectual history of the German-speaking lands. The turning points studied will vary but may include: Early Modern print culture, the making of German letters, the 'Sattelzeit' around 1800, urban modernisms around 1900, the Weimar Republic, Stunde Null and the radical contemporary.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | GM5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

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| GM5014 Specialised Research in German Studies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module provides the opportunity for postgraduate students to develop their skills of literary and textual analysis through directed reading on a topic of their choice. They will be able to study an author, discursive genre, or school in German literature, cultural studies or theory from the Medieval age to the modern day, and learn to generate original research questions on their chosen topic.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for German Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

| IT5011 Italian Literary and Cultural Contexts: Italians (40)  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>Italians: who are they and how is that decided? A young country with a long history, the problem of Italian identity predates the formation of the Italian State and remains unresolved in the 21st century. This module investigates the issue through seminal works by Italian writers from the 13th century to the present day. The idea of Italy and Italians has been largely located in literature and culture, the study of which is fundamental for any understanding of the reality of Italy, and forms an exemplary case study in the often contested construction of a national identity.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Italian Studies Postgraduate Programme.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | IT5013  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various   |               |                  |   |

## Modern Languages - Crossways in Cultural Narratives MLitt 2015/6 - November 2015

| IT5013 Italian Literary and Cultural Contexts (20)  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Italians: who are they and how is that decided? A young country with a long history, the problem of Italian identity predates the formation of the Italian State and remains unresolved in the twenty-first century. This module investigates the issue through seminal works by Italian writers from the thirteenth century to the present day. The idea of Italy and Italians has been largely located in literature and culture, the study of which is fundamental for any understanding of the reality of Italy, and forms an exemplary case study in the often contested construction of a national identity.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | IT5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

| IT5014 Specialised Research in Italian Studies  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module allows students to pursue in greater depth more particular interests which fit with areas of expertise among the academic staff in Italian. This will take the form of extended study of individual authors, or topics, in or across historical periods. Typical areas of study might be Renaissance humanism, 20th Century Italian poetry, Postcolonial Italy, Freudian and post-Freudian psychoanalytic literary theory, Love in Early Italian literature, gender and sexuality in Italian film; or the in-depth study of individual writers or directors.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Italian Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students in outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |



## Modern Languages - Crossways in Cultural Narratives MLitt 2015/6 - November 2015

| ML5002 Literary and Cultural Theory (2)   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module and its 'partner' module ML5001 seek(s) to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Plato; Nietzsche; Gramsci; Sartre; reader response theory; Foucault; Barthes; ecocriticism.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Cultural Identity Studies Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Holt   |               |                  |   |

| ML5004 Research and Professional Skills  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module introduces students to a range of skills which are essential to advanced researchers and key to many other non-academic workplaces. We will focus on analytic and critical skills (for instance writing abstracts; critically reviewing articles and research seminar presentations; producing a research poster); oral skills (presentations; asking questions in research seminars); group work (planning a conference); IT research skills. The skills sessions will be tailored to suit modern linguists and comparatists. Seminar preparation and coursework will be directly linked to individual students' own research interests. First year PhD students are invited to audit some part of the programme, adding a valuable component of peer input to the module.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Occasional seminars and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof W Fowler   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

## Modern Languages - Crossways in Cultural Narratives MLitt 2015/6 - November 2015

| <b>ML5006 Problems of Culture and Identity 1</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module aims to introduce major aspects and dimensions of the question of cultural identity. Through the study of a broad-range of particular cultural identities, it seeks to enhance understanding of the concepts and mechanisms involved in the formation of collective identity as such (the 'poetics' of cultural identity). Particular topics treated include: concepts of culture and identity; identity and language; collective memory; icons of identity; historiography and myth; complex identities and cultural hybridity.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Cultural Identity Studies Postgraduate Programme.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.<br>Optional for other MLitt students within and outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture and 1-2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof G San Roman   |               |                  |   |

| <b>ML5007 Problems of Culture and Identity 2</b>  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 9.00 Wed   |               |                  |   |
| <p>The module aims to explore further major aspects, dimensions of cultural identity beyond those studied in ML5006. Particular topics treated include: ideology, religion and identity; minority and majority, region and nation; political institutions and national/cultural identity; post-colonial identities; Self and Other (cultural encounter, interperceptions), the European bond.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Cultural Identity Studies Postgraduate Programme.<br>Optional for other MLitt students within and outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Cusack  |               |                  |   |

## Modern Languages - Crossways in Cultural Narratives MLitt 2015/6 - November 2015

| ML5104 Dissertation Report (Mundus)  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The Semester 2 Dissertation Report (10 ECTS) is an extended scholarly essay of approximately 10,000 words, reviewing the critical material available and outlining a first approach to the research topic to be addressed in the Masters Dissertation. The student collects the necessary data and performs the following specified operations: (i) determination and evaluation of a corpus of primary material, together with a first effort of analysis designed to explore and demonstrate the potential of the subject ; (ii) bibliographical survey of secondary sources, analysing and evaluating all critical material to be used; (iii) definition of perspectives of approach and methodology to be followed by the 30 ECTS Dissertation; (iv) delimitation of the subject and determination of title, together with a proposed plan.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | One of two compulsory elements in Crossways in Cultural Narratives Mundus Postgraduate Programme. (The alternative is the pair ML5106 and ML5108) |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to Crossways in Cultural Narratives Mundus Masters programme  |               |                  |   |
| <b>Anti-requisite(s):</b>  | ML5009, ML5106, ML5108  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 5 - 10 hours over semester.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Evans  |               |                  |   |

| ML5105 Europe and America: Dialogues and Identity Formation in Text, Film and Theory  |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | 11.00 am Tue and Wed  |               |                  |        |
| <p>This module will focus on the relationship between Europe and the Americas (i.e. Latin and North America, including Canada). It will explore the ways in which European authors and thinkers encounter, embrace, oppose or reject American cultures, politics and values, and how American authors in turn react to European influences. The subject will be studied through a range of literary, filmic and theoretical approaches generated in France, Germany, Spain, Italy and Russia, as well as in Latin and North America, from the discovery of the New World to the 21st century. More particularly, this module will invite students to further their awareness and understanding of the notions of identity and power at play in the many different discourses generated in Europe about America as well as different axes or networks of dialogue between North America, Latin America and Europe.</p> |   |               |                  |        |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1.5 hours comprising a combination of lectures and seminars.   |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |        |

## Modern Languages - Crossways in Cultural Narratives MLitt 2015/6 - November 2015

| ML5106 Short Dissertation Report (Master Mundus)   |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |                           |                  |   |
| <p>The Semester 2 Short Dissertation Report (5 ECTS) is an extended scholarly essay of approximately 6,000 words, reviewing the critical material available and outlining a first approach to the research topic to be addressed in the Masters Dissertation. The student collects the necessary data and performs the following specified operations: (i) determination and evaluation of a corpus of primary material, together with a first effort of analysis designed to explore and demonstrate the potential of the subject ; (ii) bibliographical survey of secondary sources, analysing and evaluating all critical material to be used; (iii) definition of perspectives of approach and methodology to be followed by the 30 ECTS Dissertation; (iv) delimitation of the subject and determination of title, together with a proposed plan.</p> |   |                           |                  |   |
| <b>Programme module type:</b>  | Together with ML5108, one of two compulsory elements in Crossways in Cultural Narratives Mundus Postgraduate Programme. (The alternative is ML5104) |                           |                  |   |
| <b>Pre-requisite(s):</b>   | 80 credits in modules from another university in the Crossways Consortium taken in Semester 1 abroad.   |                           |                  |   |
| <b>Co-requisite(s):</b>  | ML5108  | <b>Anti-requisite(s):</b> | ML5104           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 5 - 10 hours over semester.  |                           |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Evans  |                           |                  |   |

| ML5107 Dissertation Progress (Mundus)  |   |                         |                  |   |
|--|---|-------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11           | <b>Semester:</b> | 2 |
| <p>This module is part of a series of three devoted to the research leading to the Mundus Dissertation. It comes after ML5104 Mundus Dissertation Report and before ML5199 Mundus Dissertation. It consists of a series of one-to-one meetings with the supervisor in which specific areas and issues of the topic are explored. The module outcome is twofold: (i) a 5,000-word piece of writing which is consistent with the work to be carried out in the Dissertation, such as a literature review or a first full draft of a chapter, or shorter versions of more than one; and (ii) an oral presentation where the student provides a summary of the progress achieved towards the Dissertation during the semester and pointing to work that is to be embarked upon during the next and final semester.</p> |   |                         |                  |   |
| <b>Programme module type:</b>  | Compulsory for Crossways Master Mundus programme. |                         |                  |   |
| <b>Pre-requisite(s):</b>   | ML5104  | <b>Co-requisite(s):</b> | ML5199           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 6 tutorials over semester. |                         |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                                 |                         |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Evans  |                         |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |                         |                  |   |

## Modern Languages - Crossways in Cultural Narratives MLitt 2015/6 - November 2015

| ML5108 Work-Related Project (Master Mundus)  |   |                           |                  |   |
|--|---|---------------------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11             | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |                           |                  |   |
| <p>This module provides the student with the opportunity to engage with the world of employment via a placement and/or project and thus to explore the application of the academic and intellectual skills gained on the course. It is a compulsory part of semester 2 of the Master Mundus in Crossways in Cultural Narratives and the work is carried out either during term time or for a period of up to four weeks in the summer between semesters 2 and 3.</p> |   |                           |                  |   |
| <b>Programme module type:</b>  | Together with ML5106, one of two compulsory elements in Crossways in Cultural Narratives Mundus Postgraduate Programme. (the alternative is ML5104) |                           |                  |   |
| <b>Pre-requisite(s):</b>   | 80 credits in modules from another university in the Crossways Consortium taken in Semester 1 abroad.   |                           |                  |   |
| <b>Co-requisite(s):</b>  | ML5106  | <b>Anti-requisite(s):</b> | ML5104           |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual tutorial meetings.  |                           |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |                           |                  |   |
| <b>Module Co-ordinator:</b>  | Dr V Donovan  |                           |                  |   |

| ML5201 Film and Issues of European Identity   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm Tue and Wed   |               |                  |   |
| <p>A team-taught interdisciplinary module, designed to give an introduction to some central issues in the theory and practice of cinema. Issues covered characteristically include identities, the relation of political power to the cinema, film narrative, gender issues and representation, cinema realism and semiotics. The topics will be drawn from a list including film theory and the philosophy of film, and from aspects of French, Italian, Spanish, German and/or Soviet film. The availability of the module in any given year will be conditional on adequate student numbers.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 22 hours over semester.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |

## Modern Languages - Crossways in Cultural Narratives MLitt 2015/6 - November 2015

| <b>RU5011 Generations in Russian Literature and Culture (40)</b>  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Generations in Russian Literature and Culture: Metaphors of kinship have proven remarkably robust in the history of pre-revolutionary Russia and the Soviet and post-Soviet states, providing means for writers to conceptualise their relationship with their literary predecessors (father/son, uncle/nephew, for example), to imagine the nation in either epic (fatherland) or lyrical (motherland) terms, and, in the Soviet period, for the political authorities to develop discourses of (filial) loyalty and betrayal. This module investigates issues in Russian culture and history through the lens of genealogy, drawing on the expertise of researchers in the Department of Russian in order to broaden and deepen students' understanding of the Russian experience from the nineteenth century to the modern day.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Russian Studies Postgraduate Programme.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Anti-requisite(s):</b>   | RU5013   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

| <b>RU5013 Generations in Russian Literature and Culture (20)</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>Generations in Russian Literature and Culture: Metaphors of kinship have proven remarkably robust in the history of pre-revolutionary Russia and the Soviet and post-Soviet states, providing means for writers to conceptualise their relationship with their literary predecessors (father/son, uncle/nephew, for example), to imagine the nation in either epic (fatherland) or lyrical (motherland) terms, and, in the Soviet period, for the political authorities to develop discourses of (filial) loyalty and betrayal. This module investigates issues in Russian culture and history through the lens of genealogy, drawing on the expertise of researchers in the Department of Russian in order to broaden and deepen students' understanding of the Russian experience from the nineteenth century to the modern day.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Anti-requisite(s):</b>   | RU5011  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various   |               |                  |   |

## Modern Languages - Crossways in Cultural Narratives MLitt 2015/6 - November 2015

| RU5014 Specialised Research in Russian Studies  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of Russian for the exploration of a relevant topic in some depth. Potential subjects of study might cover, for example, the work of a single author like Anton Chekhov or Andrei Belyi, the development of a single genre like the historical novel or political drama, or the ramifications of a period concept like the Russian Golden Age or the Silver Age. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of directed reading.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Russian Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies, and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Finer   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

| SP5011 Patterns in Hispanic Literature and Film (40)  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm - 3.00 pm Tue, 12.00 noon - 2.00 pm Thu  |               |                  |   |
| <p>The module is a high-level introduction to research areas of Hispanic literature and film. The approach is through “national themes”, which may vary from year to year, traceable within Spanish and Spanish American culture. One such theme is the journey, a subject associated with some of the greatest texts in Spanish, such as Poema de Mio Cid, a story of reconquest and honour retrieval set at the start of Spain and the Castilian language; Don Quijote, a journey of self-realisation in the face of modernity; or Pedro Páramo, a pilgrimage to the personal roots of the protagonist as well as of Mexico. Relevant texts and films illustrating the given theme will be chosen in line with staff expertise.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Spanish and Latin American Studies Postgraduate Programme.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | SP5013   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C O’Leary   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

## Modern Languages - Crossways in Cultural Narratives MLitt 2015/6 - November 2015

| <b>SP5013 Patterns in Hispanic Literature and Film (20)</b>  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module is a high-level introduction to research areas of Hispanic literature and film. The approach is through “national themes”, which may vary from year to year, traceable within Spanish and Spanish American culture. One such theme is the journey, a subject associated with some of the greatest texts in Spanish, such as Poema de Mio Cid, a story of reconquest and honour retrieval set at the start of Spain and the Castilian language; Don Quijote, a journey of self-realisation in the face of modernity; or Pedro Páramo, a pilgrimage to the personal roots of the protagonist as well as of Mexico. This module is a 20-credit version of SP5011.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | SP5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C O’Leary   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

| <b>SP5014 Specialised Research in Spanish and/or Latin American Studies</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of Spanish for the exploration of a relevant topic in some depth. Potential subjects of study could include, for example, the work of a single author such as Juan Carlos Onetti, Gertrudis Gómez de Avellaneda or Jorge Luis Borges, or topics such as slavery in nineteenth century Spanish literature or the representation of the city in Latin American film, art and texts. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of readings.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Spanish and Latin American Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C O’Leary   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |



## Masters in Cultural Identity Studies

### **Taught Element:**

80 credits: ML5001, ML5004, ML5006, ML5007

40 further credits chosen from: AP5013, AP5014, FR5013, FR5014, GM5013, GM5014, IT5013, IT5014, ML5002, ML5105, ML5201, RU5013, RU5014, SP5013, SP5014

### **MLitt:**

120 credits as for Taught Element plus ML5099

### **MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| ML5001 Literary and Cultural Theory (1)  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module and its partner module ML5002 seek to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for German and Comparative Literature Postgraduate Programme.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lecture/seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Hugueny-Leg er   |               |                  |   |

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| ML5004 Research and Professional Skills  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module introduces students to a range of skills which are essential to advanced researchers and key to many other non-academic workplaces. We will focus on analytic and critical skills (for instance writing abstracts; critically reviewing articles and research seminar presentations; producing a research poster); oral skills (presentations; asking questions in research seminars); group work (planning a conference); IT research skills. The skills sessions will be tailored to suit modern linguists and comparatists. Seminar preparation and coursework will be directly linked to individual students' own research interests. First year PhD students are invited to audit some part of the programme, adding a valuable component of peer input to the module.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Occasional seminars and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof W Fowler   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

| ML5006 Problems of Culture and Identity 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>The module aims to introduce major aspects and dimensions of the question of cultural identity. Through the study of a broad-range of particular cultural identities, it seeks to enhance understanding of the concepts and mechanisms involved in the formation of collective identity as such (the 'poetics' of cultural identity). Particular topics treated include: concepts of culture and identity; identity and language; collective memory; icons of identity; historiography and myth; complex identities and cultural hybridity.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Cultural Identity Studies Postgraduate Programme.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.</p> <p>Optional for other MLitt students within and outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1-hour lecture and 1-2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof G San Roman  |               |                  |   |

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| <b>ML5007 Problems of Culture and Identity 2</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 Wed   |               |                  |   |
| The module aims to explore further major aspects, dimensions of cultural identity beyond those studied in ML5006. Particular topics treated include: ideology, religion and identity; minority and majority, region and nation; political institutions and national/cultural identity; post-colonial identities; Self and Other (cultural encounter, interperceptions), the European bond. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Cultural Identity Studies Postgraduate Programme.<br>Optional for other MLitt students within and outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack  |               |                  |   |

| <b>ML5099 Dissertation for MLitt Programme/s</b>  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.   |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Comparative Literature and Cultural Identity Studies MLitt Postgraduate Programmes. |               |                  |            |
| <b>Anti-requisite(s):</b>   | ML5199   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Head of relevant Department  |               |                  |            |

Optional modules:

| AP5013 Middle Eastern Literary and Cultural Contexts (20)  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| The module provides students with a comprehensive knowledge of important elements of classical and modern Arabic and Persian literatures and cultures from pre-Islamic times to the present. Students will be exposed to a greater variety of literary texts than at undergraduate level and some of these key texts will be explored in detail. Students will be expected to read some key texts in Arabic or Persian depending on their language choice. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Pre-requisite(s):</b>   | First degree in Arabic or Persian or similar knowledge of Arabic or Persian [classical and/or modern standard Arabic or Persian].   |               |                  |   |
| <b>Anti-requisite(s):</b>  | AP5011  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar (x 11 weeks) and 2 lectures over the semester  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Talajooy   |               |                  |   |

| AP5014 Specialised Research in Middle Eastern Literatures and Cultures  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module provides the opportunity for postgraduate students to develop their skills of literary and textual analysis through directed reading on a topic of their choice. They will be able to study an author or selection of Arab or Persian authors from the classical or modern period and learn to generate original research questions on topics as varied as the pre-Islamic poetry and the Arab or Persian novel or drama. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Middle Eastern Literary and Cultural Studies Postgraduate Programmes.<br>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 6 tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Talajooy  |               |                  |   |

## Modern Languages - Cultural Identity Studies MLitt & MPhil 2015/6 - November 2015

| FR5013 French Literary Revolutions (20)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module will enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the French-speaking lands from the Renaissance to the present day. It draws on the expertise of researchers in the Dept of French, and concentrates on the research-led study of major conflicts and continuities in the cultural, literary or intellectual history of the French-speaking lands. The conflicts and continuities studied will vary from year to year but may include: ancients and moderns in the Renaissance, C17th theatrical controversies, Enlightenment travel literature, the Romantic revolution, Symbolism and Decadence, C20th representations of war, literature and philosophy, autofiction and C21st movements such as littérature monde.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | FR5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and lectures.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Laügt   |               |                  |   |

| FR5014 Specialised Research in French Studies  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of French for the exploration of a relevant topic in some depth. Potential subjects of study could include, for example, literature and culture of the Renaissance, C17th-C20th theatre, literature and ideas of the Enlightenment, C19th and C20th literature, culture, politics and society, music and poetry, autobiography, C21st literature, modern French thought, cinematic adaptations of French novels. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of readings.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for French Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Laügt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

## Modern Languages - Cultural Identity Studies MLitt & MPhil 2015/6 - November 2015

| GM5013 German Literary and Cultural Contexts (20)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module seeks to enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the German-speaking lands from the Middle Ages to the present day. It draws on the expertise of academic teachers in the Department of German, and concentrates on the research-led study of selected turning points in the cultural, literary or intellectual history of the German-speaking lands. The turning points studied will vary but may include: Early Modern print culture, the making of German letters, the 'Sattelzeit' around 1800, urban modernisms around 1900, the Weimar Republic, Stunde Null and the radical contemporary.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | GM5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

| GM5014 Specialised Research in German Studies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module provides the opportunity for postgraduate students to develop their skills of literary and textual analysis through directed reading on a topic of their choice. They will be able to study an author, discursive genre, or school in German literature, cultural studies or theory from the Medieval age to the modern day, and learn to generate original research questions on their chosen topic.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for German Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

## Modern Languages - Cultural Identity Studies MLitt & MPhil 2015/6 - November 2015

| IT5013 Italian Literary and Cultural Contexts (20)  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Italians: who are they and how is that decided? A young country with a long history, the problem of Italian identity predates the formation of the Italian State and remains unresolved in the twenty-first century. This module investigates the issue through seminal works by Italian writers from the thirteenth century to the present day. The idea of Italy and Italians has been largely located in literature and culture, the study of which is fundamental for any understanding of the reality of Italy, and forms an exemplary case study in the often contested construction of a national identity.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | IT5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

| IT5014 Specialised Research in Italian Studies  |  |               |                  |                      |
|---|--|---------------|------------------|----------------------|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 & 2 (taught twice) |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |                      |
| <p>This module allows students to pursue in greater depth more particular interests which fit with areas of expertise among the academic staff in Italian. This will take the form of extended study of individual authors, or topics, in or across historical periods. Typical areas of study might be Renaissance humanism, 20th Century Italian poetry, Postcolonial Italy, Freudian and post-Freudian psychoanalytic literary theory, Love in Early Italian literature, gender and sexuality in Italian film; or the in-depth study of individual writers or directors.</p> |  |               |                  |                      |
| <b>Programme module type:</b>   | <p>Compulsory for Italian Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students in outside Modern Languages with permission of both Schools.</p> |               |                  |                      |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |                      |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |                      |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |                      |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |                      |

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| ML5105 Europe and America: Dialogues and Identity Formation in Text, Film and Theory  |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | 11.00 am Tue and Wed  |               |                  |        |
| <p>This module will focus on the relationship between Europe and the Americas (i.e. Latin and North America, including Canada). It will explore the ways in which European authors and thinkers encounter, embrace, oppose or reject American cultures, politics and values, and how American authors in turn react to European influences. The subject will be studied through a range of literary, filmic and theoretical approaches generated in France, Germany, Spain, Italy and Russia, as well as in Latin and North America, from the discovery of the New World to the 21st century. More particularly, this module will invite students to further their awareness and understanding of the notions of identity and power at play in the many different discourses generated in Europe about America as well as different axes or networks of dialogue between North America, Latin America and Europe.</p> |   |               |                  |        |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1.5 hours comprising a combination of lectures and seminars.   |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |        |

| ML5201 Film and Issues of European Identity   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm Tue and Wed   |               |                  |   |
| <p>A team-taught interdisciplinary module, designed to give an introduction to some central issues in the theory and practice of cinema. Issues covered characteristically include identities, the relation of political power to the cinema, film narrative, gender issues and representation, cinema realism and semiotics. The topics will be drawn from a list including film theory and the philosophy of film, and from aspects of French, Italian, Spanish, German and/or Soviet film. The availability of the module in any given year will be conditional on adequate student numbers.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 22 hours over semester.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |



## Modern Languages - Cultural Identity Studies MLitt & MPhil 2015/6 - November 2015

| <b>RU5013 Generations in Russian Literature and Culture (20)</b>  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Generations in Russian Literature and Culture: Metaphors of kinship have proven remarkably robust in the history of pre-revolutionary Russia and the Soviet and post-Soviet states, providing means for writers to conceptualise their relationship with their literary predecessors (father/son, uncle/nephew, for example), to imagine the nation in either epic (fatherland) or lyrical (motherland) terms, and, in the Soviet period, for the political authorities to develop discourses of (filial) loyalty and betrayal. This module investigates issues in Russian culture and history through the lens of genealogy, drawing on the expertise of researchers in the Department of Russian in order to broaden and deepen students' understanding of the Russian experience from the nineteenth century to the modern day.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | RU5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

| <b>RU5014 Specialised Research in Russian Studies</b>   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of Russian for the exploration of a relevant topic in some depth. Potential subjects of study might cover, for example, the work of a single author like Anton Chekhov or Andrei Belyi, the development of a single genre like the historical novel or political drama, or the ramifications of a period concept like the Russian Golden Age or the Silver Age. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of directed reading.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Russian Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies, and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Finer   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

## Modern Languages - Cultural Identity Studies MLitt & MPhil 2015/6 - November 2015

| SP5013 Patterns in Hispanic Literature and Film (20)   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module is a high-level introduction to research areas of Hispanic literature and film. The approach is through “national themes”, which may vary from year to year, traceable within Spanish and Spanish American culture. One such theme is the journey, a subject associated with some of the greatest texts in Spanish, such as Poema de Mio Cid, a story of reconquest and honour retrieval set at the start of Spain and the Castilian language; Don Quijote, a journey of self-realisation in the face of modernity; or Pedro Páramo, a pilgrimage to the personal roots of the protagonist as well as of Mexico. This module is a 20-credit version of SP5011.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | SP5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C O’Leary   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

| SP5014 Specialised Research in Spanish and/or Latin American Studies  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of Spanish for the exploration of a relevant topic in some depth. Potential subjects of study could include, for example, the work of a single author such as Juan Carlos Onetti, Gertrudis Gómez de Avellaneda or Jorge Luis Borges, or topics such as slavery in nineteenth century Spanish literature or the representation of the city in Latin American film, art and texts. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of readings.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Spanish and Latin American Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C O’Leary   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

## Masters in French Studies

**Taught Element:**

120 credits: FR5011, FR5014, ML5001, ML5002, ML5004

**MLitt:**

120 credits as for Taught Element plus FR5199

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| FR5011 French Literary Revolutions (40)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>French Literary Revolutions: this module will enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the French-speaking lands from the Renaissance to the present day. It draws on the expertise of researchers in the Dept of French, and concentrates on the research-led study of major conflicts and continuities in the cultural, literary or intellectual history of the French-speaking lands. The conflicts and continuities studied will vary from year to year but may include: ancients and moderns in the Renaissance, C17th theatrical controversies, Enlightenment travel literature, the Romantic revolution, Symbolism and Decadence, C20th representations of war, literature and philosophy, autofiction and C21st movements such as littérature monde.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for French Studies Postgraduate Programme.<br/>                     Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br/>                     Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | FR5013   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Laügt   |               |                  |   |

## Modern Languages - French Studies MLitt & MPhil 2015/6 - November 2015

| FR5014 Specialised Research in French Studies  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of French for the exploration of a relevant topic in some depth. Potential subjects of study could include, for example, literature and culture of the Renaissance, C17th-C20th theatre, literature and ideas of the Enlightenment, C19th and C20th literature, culture, politics and society, music and poetry, autobiography, C21st literature, modern French thought, cinematic adaptations of French novels. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of readings.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for French Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Laügt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

| ML5001 Literary and Cultural Theory (1)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module and its partner module ML5002 seek to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for German and Comparative Literature Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lecture/seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Hugueny-Léger   |               |                  |   |

## Modern Languages - French Studies MLitt & MPhil 2015/6 - November 2015

| ML5002 Literary and Cultural Theory (2)   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module and its 'partner' module ML5001 seek(s) to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Plato; Nietzsche; Gramsci; Sartre; reader response theory; Foucault; Barthes; ecocriticism.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Cultural Identity Studies Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Holt   |               |                  |   |

| ML5004 Research and Professional Skills  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module introduces students to a range of skills which are essential to advanced researchers and key to many other non-academic workplaces. We will focus on analytic and critical skills (for instance writing abstracts; critically reviewing articles and research seminar presentations; producing a research poster); oral skills (presentations; asking questions in research seminars); group work (planning a conference); IT research skills. The skills sessions will be tailored to suit modern linguists and comparatists. Seminar preparation and coursework will be directly linked to individual students' own research interests. First year PhD students are invited to audit some part of the programme, adding a valuable component of peer input to the module.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Occasional seminars and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof W Fowler   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

## Modern Languages - French Studies MLitt & MPhil 2015/6 - November 2015

| FR5199 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for French Studies MLitt Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.              |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr E Läugt  |               |                  |            |

## Masters in German and Comparative Literature

*Year 1 in Bonn;*

2 out of 3 „Ästhetik und Poetik im internationalen Kontext“ (D12), „Themen und Theorien der Weltliteratur“ (D 13) und „Medienwechsel und Intermedialität“ (D 14),

2 additional German Literature modules from :D1 (or D2), D6, D7, D8

*Year 2 in St Andrews Taught Element:*

20 credits: CO5001

40 credits: GM5011

OR

20 credits: GM5013 and 20 credits from one of: AP5013, EN5115, EN5116, EN5202, EN5301, EN5302, EN5303, EN5304, EN5501, EN5502, EN5511, EN5512, FR5013, IT5013, ML5001, ML5006, ML5105, RU5013, SP5013

**MLitt/MA:**

120 credits as for Taught Element plus GM5199

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| CO5001 Apples and Oranges: Issues in Comparative Literature   |   |               |                  |   |  |
|---|---|---------------|------------------|---|--|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |  |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |  |
| This module will explore the most pressing questions which arise when different texts are put in contact, using pairings of texts to reflect on different kinds of relations, such as clashes, genetic, interdisciplinary and intermedial relations. Students are expected to find further texts to "prolong" the comparison in a meaningful way, drawing on their respective expertise in different languages, thus developing an in-depth understanding of methods and theoretical frameworks in Comparative Literature. The module will be based on three disciplines (including but not limited to Arabic, French, German, Italian, Russian, Spanish). Translations of the core texts discussed in class will be available. |   |               |                  |   |  |
| <b>Programme module type:</b>   | Compulsory for Comparative Literature and German and Comparative Literature Postgraduate Programmes.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes. |               |                  |   |  |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours (lectures and seminars)  |               |                  |   |  |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |  |
| <b>Module Co-ordinator:</b>   | Dr S Talajooy   |               |                  |   |  |

| <b>GM5011 German Literary and Cultural Contexts: Turning Points (40)</b>   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module seeks to enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the German-speaking lands from the Middle Ages to the present day. It draws on the expertise of academic teachers in the Department of German, and concentrates on the research-led study of selected turning points in the cultural, literary or intellectual history of the German-speaking lands. The turning points studied will vary but may include: Early Modern print culture, the making of German letters, the 'Sattelzeit' around 1800, urban modernisms around 1900, the Weimar Republic, Stunde Null and the radical contemporary.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for German Studies Postgraduate Programme.</p> <p>Optional for German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students in outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | GM5013  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

OR

| <b>GM5013 German Literary and Cultural Contexts (20)</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module seeks to enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the German-speaking lands from the Middle Ages to the present day. It draws on the expertise of academic teachers in the Department of German, and concentrates on the research-led study of selected turning points in the cultural, literary or intellectual history of the German-speaking lands. The turning points studied will vary but may include: Early Modern print culture, the making of German letters, the 'Sattelzeit' around 1800, urban modernisms around 1900, the Weimar Republic, Stunde Null and the radical contemporary.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | GM5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |



**AND ONE OF:**

| <b>AP5013 Middle Eastern Literary and Cultural Contexts (20)</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| The module provides students with a comprehensive knowledge of important elements of classical and modern Arabic and Persian literatures and cultures from pre-Islamic times to the present. Students will be exposed to a greater variety of literary texts than at undergraduate level and some of these key texts will be explored in detail. Students will be expected to read some key texts in Arabic or Persian depending on their language choice. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus. Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Pre-requisite(s):</b>   | First degree in Arabic or Persian or similar knowledge of Arabic or Persian [classical and/or modern standard Arabic or Persian].  |               |                  |   |
| <b>Anti-requisite(s):</b>  | AP5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar (x 11 weeks) and 2 lectures over the semester   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Talajooy  |               |                  |   |

| <b>EN5115 Women, Writing and Gender 1: Renaissance to Romanticism</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| The module seeks to introduce students to a range of debates concerning women, writing and gender through history. The set texts embrace a variety of generic forms, and reflect upon such questions as the 'problem' of woman's voice. Central to many of the works are such concerns as the role of woman in marriage and civic society, the importance of education, and the tension between domestic ideology and female desire. Central to these works is a concern with constructions of femininity and masculinity and in conjunction with EN5112, the module will also examine current critical debates surrounding the cultural configuration of gender. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof S C Sellers and Dr C M Alt   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |   |

| EN5116 Women, Writing and Gender 2: Victorian to Contemporary  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged  |               |                  |   |
| <p>This module continues the chronological survey of debates surrounding women, writing and gender begun by EN5115. The module examines continuity and change in constructions of gender across the period 1800 to the present. Students will be introduced to key critical readings of nineteenth-century women's writing before moving on to consider the emergence of the 'new woman' at the fin de siècle. In the twentieth century the module will consider the work of modernist writers alongside 'middlebrow' and popular fictions. Finally students will examine a range of contemporary writers whose rewriting of history and myth engages with current debates in gender theory.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Women, Writing and Gender Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Pre-requisite(s):</b>   | EN5115  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught   |               |                  |   |

| EN5301 The Continental Renaissance  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>English literature did not develop in isolation, but in response to continental writing. This module will investigate the relationship between the literature of the English Renaissance and the European vernaculars of the period. It will examine continental texts, their early modern English translations, and English work influenced by them. Possible topics for discussion include: Petrarch's sonnets and their English imitators and adaptors; Ariosto's Orlando Furioso; the political writing of Machiavelli; and Castiglione's Libro del Cortegiano and its influence. All texts will be taught in English.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5303 Renaissance Popular Culture  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged  |               |                  |   |
| <p>This module aims to build upon the themes explored in EN5304, 'Learned Culture'. Here, the emphasis is less upon rhetoric and classroom practice in the sixteenth century, and more upon Renaissance literature's engagement with a wider field of influences and practice, explored as aspects of 'the popular' in its widest sense. Themes for discussion may include: the place of the stage; popular festivity and literary form; ballads and print; jests and alehouses; the impact of the Reformation. Texts to be discussed may include: Shakespeare's <i>The Winter's Tale</i>; law and popular culture; the poetry of Robert Herrick.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme.<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught   |               |                  |   |

| EN5304 Learned Culture: Rhetoric, Politics and Identity   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>This module investigates the learned culture of Renaissance England, with a particular focus on the teaching of rhetoric in the grammar school classroom and its relevance to the literary production of the period. Topics covered may include: figures of speech; rhetoric and gender; the controversial plot; and the politics of Renaissance humanism.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A L Davis   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5501 Contextualising the Modern   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>Modernism, in its narrowest sense, refers to the radical literary experiments that occurred in English poetry and prose in the aftermath of the First World War by writers such as T.S. Eliot, James Joyce and Virginia Woolf. This module will explore those experiments in the context of the wider movements in culture and society that informed literary modernism in the first decades of the twentieth century.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>  | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

| EN5502 Reading the Modern  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>Responding to what Pericles Lewis has termed the 'crisis of representation' in the opening decades of the twentieth century, this module explores attempts by writers to find new literary subjects and forms. In tandem with module EN5501, which considers the impact of political, social, scientific, technological and cultural revolution on literary traditions and techniques, this module explores the pursuit of a number of influential British, American and French modernists to develop modes of representation compatible with a newly urban, industrialised, mass-oriented age.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinators:</b>   | Prof S C Sellers and Dr C M Alt  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5511 Theorising the Contemporary   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged   |               |                  |   |
| <p>The second half of the twentieth century and the beginning of the twenty-first century witnessed an explosion of theories about literature and culture in an attempt to understand the complexities of a historical period characterised by political, economic and social upheaval and rapid advancements in science and technology. This module will introduce students to key literary and cultural theories within the contemporary period via the close study of selected theoretical texts. Theories covered may include Marxism, postmodernism, deconstruction, poststructuralism, postcolonialism, queer theory, ecocriticism and contemporary poetics.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Team taught  |               |                  |   |

| EN5512 Contemporary Literature and Culture  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged   |               |                  |   |
| <p>In tandem with the theoretical and philosophical perspectives studied on EN5511, this module introduces students to a range of late twentieth and early twenty-first century writing. Focalised through both national and international perspectives, this module provides the opportunity to reflect on the proliferation of diverse literatures and other forms of cultural production in the contemporary world. The course is designed to expose students to a range of contemporary authors, poets and playwrights, moving between a detailed focus on highlighted key works and a wider perspective on individual writer's oeuvres. Topics and themes may include: ecocriticism, postmodernism, terrorism, genre, magical realism, experimental writing, sexualities, globalisation and postcolonialism.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Modern and Contemporary Literature and Culture Postgraduate Programme<br>Optional for German and Comparative Literature and students of any other MLitt Postgraduate Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 seminar   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr L M Burns   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Team taught  |               |                  |   |

## Modern Languages - German and Comparative Literature MLitt /MA - 2015/6 - November 2015

| FR5013 French Literary Revolutions (20)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module will enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the French-speaking lands from the Renaissance to the present day. It draws on the expertise of researchers in the Dept of French, and concentrates on the research-led study of major conflicts and continuities in the cultural, literary or intellectual history of the French-speaking lands. The conflicts and continuities studied will vary from year to year but may include: ancients and moderns in the Renaissance, C17th theatrical controversies, Enlightenment travel literature, the Romantic revolution, Symbolism and Decadence, C20th representations of war, literature and philosophy, autofiction and C21st movements such as littérature monde.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | FR5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and lectures.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Laügt   |               |                  |   |

| IT5013 Italian Literary and Cultural Contexts (20)  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Italians: who are they and how is that decided? A young country with a long history, the problem of Italian identity predates the formation of the Italian State and remains unresolved in the twenty-first century. This module investigates the issue through seminal works by Italian writers from the thirteenth century to the present day. The idea of Italy and Italians has been largely located in literature and culture, the study of which is fundamental for any understanding of the reality of Italy, and forms an exemplary case study in the often contested construction of a national identity.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | IT5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

## Modern Languages - German and Comparative Literature MLitt /MA - 2015/6 - November 2015

| ML5001 Literary and Cultural Theory (1)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module and its partner module ML5002 seek to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for German and Comparative Literature Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lecture/seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Hugueny-Leg er  |               |                  |   |

| RU5013 Generations in Russian Literature and Culture (20)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>Generations in Russian Literature and Culture: Metaphors of kinship have proven remarkably robust in the history of pre-revolutionary Russia and the Soviet and post-Soviet states, providing means for writers to conceptualise their relationship with their literary predecessors (father/son, uncle/nephew, for example), to imagine the nation in either epic (fatherland) or lyrical (motherland) terms, and, in the Soviet period, for the political authorities to develop discourses of (filial) loyalty and betrayal. This module investigates issues in Russian culture and history through the lens of genealogy, drawing on the expertise of researchers in the Department of Russian in order to broaden and deepen students' understanding of the Russian experience from the nineteenth century to the modern day.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>   | RU5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

| SP5013 Patterns in Hispanic Literature and Film (20)   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module is a high-level introduction to research areas of Hispanic literature and film. The approach is through “national themes”, which may vary from year to year, traceable within Spanish and Spanish American culture. One such theme is the journey, a subject associated with some of the greatest texts in Spanish, such as Poema de Mio Cid, a story of reconquest and honour retrieval set at the start of Spain and the Castilian language; Don Quijote, a journey of self-realisation in the face of modernity; or Pedro Páramo, a pilgrimage to the personal roots of the protagonist as well as of Mexico. This module is a 20-credit version of SP5011.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | SP5011   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C O’Leary   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

### Compulsory module for the MLitt/MA:

| GM5199 Dissertation for German and Comparative Literature   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                                   |               |                  |            |
| <p>Student dissertations will be supervised jointly by members of the teaching staff in St Andrews and in Bonn who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 18,000 words must be submitted on the last day of exams in the May Exam Diet.</p> |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for German and Comparative Literature MLitt Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.                                 |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Cusack  |               |                  |            |



## Masters in German Studies

**Taught Element:**

120 credits: GM5011, GM5014, ML5001, ML5002, ML5004

**MLitt:**

120 credits as for Taught Element plus GM5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| GM5011 German Literary and Cultural Contexts: Turning Points (40)  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module seeks to enable postgraduates actively to acquire advanced knowledge of contexts that have shaped literature and culture in the German-speaking lands from the Middle Ages to the present day. It draws on the expertise of academic teachers in the Department of German, and concentrates on the research-led study of selected turning points in the cultural, literary or intellectual history of the German-speaking lands. The turning points studied will vary but may include: Early Modern print culture, the making of German letters, the 'Sattelzeit' around 1800, urban modernisms around 1900, the Weimar Republic, Stunde Null and the radical contemporary.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for German Studies Postgraduate Programme.<br/>                     Optional for German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br/>                     Optional for other MLitt students in outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Anti-requisite(s):</b>  | GM5013  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

| GM5014 Specialised Research in German Studies  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module provides the opportunity for postgraduate students to develop their skills of literary and textual analysis through directed reading on a topic of their choice. They will be able to study an author, discursive genre, or school in German literature, cultural studies or theory from the Medieval age to the modern day, and learn to generate original research questions on their chosen topic.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for German Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Cusack   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

| ML5001 Literary and Cultural Theory (1)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module and its partner module ML5002 seek to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for German and Comparative Literature Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lecture/seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Hugueny-Legér   |               |                  |   |

**Modern Languages - German Studies MLitt & MPhil - 2015/6 - November 2015**

| <b>ML5002 Literary and Cultural Theory (2)</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module and its 'partner' module ML5001 seek(s) to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Plato; Nietzsche; Gramsci; Sartre; reader response theory; Foucault; Barthes; ecocriticism.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Cultural Identity Studies Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Holt   |               |                  |   |

| <b>ML5004 Research and Professional Skills</b>   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module introduces students to a range of skills which are essential to advanced researchers and key to many other non-academic workplaces. We will focus on analytic and critical skills (for instance writing abstracts; critically reviewing articles and research seminar presentations; producing a research poster); oral skills (presentations; asking questions in research seminars); group work (planning a conference); IT research skills. The skills sessions will be tailored to suit modern linguists and comparatists. Seminar preparation and coursework will be directly linked to individual students' own research interests. First year PhD students are invited to audit some part of the programme, adding a valuable component of peer input to the module.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Occasional seminars and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof W Fowler   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

| GM5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for German Studies MLitt Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.              |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Cusack   |               |                  |            |

## Masters in Italian Studies

**Taught Element:**

120 credits: IT5011, IT5014, ML5001, ML5002, ML5004

**MLitt:**

120 credits as for Taught Element plus IT5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| IT5011 Italian Literary and Cultural Contexts: Italians (40)   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| Italians: who are they and how is that decided? A young country with a long history, the problem of Italian identity predates the formation of the Italian State and remains unresolved in the 21st century. This module investigates the issue through seminal works by Italian writers from the 13th century to the present day. The idea of Italy and Italians has been largely located in literature and culture, the study of which is fundamental for any understanding of the reality of Italy, and forms an exemplary case study in the often contested construction of a national identity. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Italian Studies Postgraduate Programme.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students |               |                  |   |
| <b>Anti-requisite(s):</b>  | IT5013   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

## Modern Languages - Italian Studies MLitt & MPhil 2015/6 - November 2015

| IT5014 Specialised Research in Italian Studies  |   |               |                  |                      |
|---|---|---------------|------------------|----------------------|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 & 2 (taught twice) |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |                      |
| <p>This module allows students to pursue in greater depth more particular interests which fit with areas of expertise among the academic staff in Italian. This will take the form of extended study of individual authors, or topics, in or across historical periods. Typical areas of study might be Renaissance humanism, 20th Century Italian poetry, Postcolonial Italy, Freudian and post-Freudian psychoanalytic literary theory, Love in Early Italian literature, gender and sexuality in Italian film; or the in-depth study of individual writers or directors.</p> |   |               |                  |                      |
| <b>Programme module type:</b>   | <p>Compulsory for Italian Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |                      |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.   |               |                  |                      |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |                      |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |                      |
| <b>Lecturer(s)/Tutor(s):</b>  | various   |               |                  |                      |

| ML5001 Literary and Cultural Theory (1)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module and its partner module ML5002 seek to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for German and Comparative Literature Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lecture/seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Hugueny-Legér   |               |                  |   |

## Modern Languages - Italian Studies MLitt & MPhil 2015/6 - November 2015

| ML5002 Literary and Cultural Theory (2)   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module and its 'partner' module ML5001 seek(s) to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Plato; Nietzsche; Gramsci; Sartre; reader response theory; Foucault; Barthes; ecocriticism.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Cultural Identity Studies Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Holt   |               |                  |   |

| ML5004 Research and Professional Skills  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| <p>This module introduces students to a range of skills which are essential to advanced researchers and key to many other non-academic workplaces. We will focus on analytic and critical skills (for instance writing abstracts; critically reviewing articles and research seminar presentations; producing a research poster); oral skills (presentations; asking questions in research seminars); group work (planning a conference); IT research skills. The skills sessions will be tailored to suit modern linguists and comparatists. Seminar preparation and coursework will be directly linked to individual students' own research interests. First year PhD students are invited to audit some part of the programme, adding a valuable component of peer input to the module.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Occasional seminars and practical classes.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof W Fowler   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

## Modern Languages - Italian Studies MLitt & MPhil 2015/6 - November 2015

| IT5099 Dissertation for MLitt Programme/s  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times arranged with the supervisor(s).                        |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff in Italian who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Italian MLitt Postgraduate Programmes.            |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> At times arranged with the supervisor(s). |               |                  |            |
| <b>Assessment pattern:</b>   | Dissertation = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Head of Italian  |               |                  |            |



## Masters in Middle Eastern Literary and Cultural Studies

**Taught Element:**

120 credits: AP5011, AP5014, ML5001, ML5002, ML5004

**MLitt:**

120 credits as for Taught Element plus AP5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| AP5011 Middle Eastern Literary and Cultural Contexts (40)  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| The module provides students with a comprehensive knowledge of important elements of classical and modern Arabic and Persian literatures and cultures from pre-Islamic times to the present. Students will be exposed to a greater variety of literary texts than at undergraduate level and some of these key texts will be explored in detail. Students will be expected to read some key texts in Arabic or Persian depending on their language choice. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Middle Eastern Literary and Cultural Studies Postgraduate Programme.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.<br>Optional for other MLitt students in outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Pre-requisite(s):</b>   | First degree in Arabic or Persian or similar knowledge of Arabic or Persian [classical and/or modern standard Arabic or Persian]  |               |                  |   |
| <b>Anti-requisite(s):</b>  | AP5013  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 - 2 seminars per week and 3 lectures over the semester.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Talajooy   |               |                  |   |

**Modern Languages - Middle Eastern Literary and Cultural Studies MLitt & MPhil 2015/6 - November 2015**

| <b>AP5014 Specialised Research in Middle Eastern Literatures and Cultures</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module provides the opportunity for postgraduate students to develop their skills of literary and textual analysis through directed reading on a topic of their choice. They will be able to study an author or selection of Arab or Persian authors from the classical or modern period and learn to generate original research questions on topics as varied as the pre-Islamic poetry and the Arab or Persian novel or drama. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Middle Eastern Literary and Cultural Studies Postgraduate Programme.<br>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Pre-requisite(s):</b>  | First degree in Arabic or Persian or similar knowledge of Arabic or Persian [classical and/or modern standard Arabic or Persian]  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 6 tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Talajooy   |               |                  |   |

| <b>ML5001 Literary and Cultural Theory (1)</b>   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module and its partner module ML5002 seek to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for German and Comparative Literature Postgraduate Programme.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lecture/seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Hugueny-Legér  |               |                  |   |

**Modern Languages - Middle Eastern Literary and Cultural Studies MLitt & MPhil 2015/6 -  
November 2015**

| <b>ML5002 Literary and Cultural Theory (2)</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module and its 'partner' module ML5001 seek(s) to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Plato; Nietzsche; Gramsci; Sartre; reader response theory; Foucault; Barthes; ecocriticism. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.<br>Optional for Cultural Identity Studies Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Holt  |               |                  |   |

| <b>ML5004 Research and Professional Skills</b>  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module introduces students to a range of skills which are essential to advanced researchers and key to many other non-academic workplaces. We will focus on analytic and critical skills (for instance writing abstracts; critically reviewing articles and research seminar presentations; producing a research poster); oral skills (presentations; asking questions in research seminars); group work (planning a conference); IT research skills. The skills sessions will be tailored to suit modern linguists and comparatists. Seminar preparation and coursework will be directly linked to individual students' own research interests. First year PhD students are invited to audit some part of the programme, adding a valuable component of peer input to the module. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Occasional seminars and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof W Fowler  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

**Modern Languages - Middle Eastern Literary and Cultural Studies MLitt & MPhil 2015/6 - November 2015**

| <b>AP5099 Dissertation for MLitt Programme/s</b>  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times arranged with the supervisor(s).   |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff in Arabic and Persian who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Middle Eastern Literary and Cultural Studies MLitt Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> At times arranged with the supervisor(s)                           |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Ms C Cobham   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | various   |               |                  |            |

## Masters in Russian Studies

**Taught Element:**

120 credits: RU5011, RU5014, ML5001, ML5002, ML5004

**MLitt:**

120 credits as for Taught Element plus RU5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

| RU5011 Generations in Russian Literature and Culture (40)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| Generations in Russian Literature and Culture: Metaphors of kinship have proven remarkably robust in the history of pre-revolutionary Russia and the Soviet and post-Soviet states, providing means for writers to conceptualise their relationship with their literary predecessors (father/son, uncle/nephew, for example), to imagine the nation in either epic (fatherland) or lyrical (motherland) terms, and, in the Soviet period, for the political authorities to develop discourses of (filial) loyalty and betrayal. This module investigates issues in Russian culture and history through the lens of genealogy, drawing on the expertise of researchers in the Department of Russian in order to broaden and deepen students' understanding of the Russian experience from the nineteenth century to the modern day. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Russian Studies Postgraduate Programme.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Anti-requisite(s):</b>  | RU5013   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | TBC  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

## Modern Languages - Russian Studies MLitt & MPhil 2015/6 - November 2015

| RU5014 Specialised Research in Russian Studies  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of Russian for the exploration of a relevant topic in some depth. Potential subjects of study might cover, for example, the work of a single author like Anton Chekhov or Andrei Belyi, the development of a single genre like the historical novel or political drama, or the ramifications of a period concept like the Russian Golden Age or the Silver Age. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of directed reading.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Russian Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies, and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Finer   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

| ML5001 Literary and Cultural Theory (1)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module and its 'partner' module ML5002 seek(s) to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for German and Comparative Literature Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Lecture/seminar.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Hugueny-Legér   |               |                  |   |

## Modern Languages - Russian Studies MLitt & MPhil 2015/6 - November 2015

| ML5002 Literary and Cultural Theory (2)   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>This module and its 'partner' module ML5001 seek(s) to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Plato; Nietzsche; Gramsci; Sartre; reader response theory; Foucault; Barthes; ecocriticism.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Cultural Identity Studies Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 tutorial.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Holt   |               |                  |   |

| ML5004 Research and Professional Skills  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>This module introduces students to a range of skills which are essential to advanced researchers and key to many other non-academic workplaces. We will focus on analytic and critical skills (for instance writing abstracts; critically reviewing articles and research seminar presentations; producing a research poster); oral skills (presentations; asking questions in research seminars); group work (planning a conference); IT research skills. The skills sessions will be tailored to suit modern linguists and comparatists. Seminar preparation and coursework will be directly linked to individual students' own research interests. First year PhD students are invited to audit some part of the programme, adding a valuable component of peer input to the module.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Occasional seminars and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof M-A Hutton  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various  |               |                  |   |

## Modern Languages - Russian Studies MLitt & MPhil 2015/6 - November 2015

| RU5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Russian Studies MLitt Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.                |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |            |



## Masters in Spanish and Latin American Studies

**Taught Element:**

120 credits: SP5011, SP5014, ML5001, ML5002, ML5004

**MLitt:**

120 credits as for Taught Element plus SP5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

### Compulsory modules:

| SP5011 Patterns in Hispanic Literature and Film (40)   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 40  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 3.00 pm Tue, 12.00 noon - 2.00 pm Thu   |               |                  |   |
| The module is a high-level introduction to research areas of Hispanic literature and film. The approach is through “national themes”, which may vary from year to year, traceable within Spanish and Spanish American culture. One such theme is the journey, a subject associated with some of the greatest texts in Spanish, such as Poema de Mio Cid, a story of reconquest and honour retrieval set at the start of Spain and the Castilian language; Don Quijote, a journey of self-realisation in the face of modernity; or Pedro Páramo, a pilgrimage to the personal roots of the protagonist as well as of Mexico. Relevant texts and films illustrating the given theme will be chosen in line with staff expertise. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Spanish and Latin American Studies Postgraduate Programme.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Anti-requisite(s):</b>  | SP5013  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Seminars and occasional lectures.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C O’Leary  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | various   |               |                  |   |

## Modern Languages - Spanish and Latin American Studies MLitt & MPhil 2015/6 - Nov 2015

| SP5014 Specialised Research in Spanish and/or Latin American Studies   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| <p>The module offers students the opportunity to draw on expertise in the Department of Spanish for the exploration of a relevant topic in some depth. Potential subjects of study could include, for example, the work of a single author such as Juan Carlos Onetti, Carmen Martin Gaité or Jorge Luis Borges, or topics such as Spanish cinema, Golden Age theatre, or the representation of the city in Latin American film, art and texts. Teaching and learning will proceed on the basis of a series of seminars and an agreed programme of readings.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | <p>Compulsory for Spanish and Latin American Studies Postgraduate Programme.</p> <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Fortnightly tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C O'Leary   |               |                  |   |

| ML5001 Literary and Cultural Theory (1)   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module and its partner module ML5002 seek to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Aristotle; Kant; Marxist theory; psychoanalytic theory; Benjamin; Adorno; structuralism, deconstruction and poststructuralism; feminist and queer theory; Fanon, Spivak and Bhabha; the posthuman.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | <p>Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for German and Comparative Literature Postgraduate Programme.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Lecture/seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Hugueny-Legér   |               |                  |   |

| ML5002 Literary and Cultural Theory (2)  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module and its 'partner' module ML5001 seek(s) to provide the kind of research training now regarded as indispensable for all postgraduates by exploring a range of literary and cultural theories through which texts of all sorts may be conceptualised, criticised and analysed. We will study a broad chronological and national range of seminal thinkers and theories, which might typically include: Plato; Nietzsche; Gramsci; Sartre; reader response theory; Foucault; Barthes; ecocriticism. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.<br>Optional for Cultural Identity Studies Postgraduate Programmes.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 tutorial.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |

| ML5004 Research and Professional Skills   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module introduces students to a range of skills which are essential to advanced researchers and key to many other non-academic workplaces. We will focus on analytic and critical skills (for instance writing abstracts; critically reviewing articles and research seminar presentations; producing a research poster); oral skills (presentations; asking questions in research seminars); group work (planning a conference); IT research skills. The skills sessions will be tailored to suit modern linguists and comparatists. Seminar preparation and coursework will be directly linked to individual students' own research interests. First year PhD students are invited to audit some part of the programme, adding a valuable component of peer input to the module. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Comparative Literature, Cultural Identity Studies, French Studies, German Studies, Italian Studies, Middle Eastern Literary and Cultural Studies, Russian Studies, Spanish and Latin American Studies Postgraduate Programmes.<br>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme.<br>Optional for other MLitt students outside Modern Languages with permission of both Schools. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Occasional seminars and practical classes.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof W Fowler  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | various  |               |                  |   |

## Modern Languages - Spanish and Latin American Studies MLitt & MPhil 2015/6 - Nov 2015

| SP5099 Dissertation for MLitt Programme/s   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.                                    |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Spanish and Latin American Studies MLitt Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.                                  |               |                  |            |
| <b>Assessment pattern:</b>  | Dissertation = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr C O'Leary  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | various   |               |                  |            |

## Department of Philosophy

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### **Graduate Diploma (Conversion):**

**Philosophy** (*below*)

#### **MLitt:**

**Epistemology, Mind and Language** (*link*)

**History of Philosophy** (*link*)

**Logic and Metaphysics** (*link*)

**Moral, Political and Legal Philosophy** (*link*)

**Philosophy** (*link*)

#### **MPhil:**

**Philosophy** (*link*)

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

#### **Graduate Diploma (Conversion) in Philosophy**

120 credits, including 60 credits from PY3001 - PY3999; other credits should normally be obtained from sub-honours modules in Philosophy (PY1001 - PY2102). All modules must be chosen by agreement with the director of the graduate programme, who may permit occasional choice of modules from cognate areas of study.

## Masters in Epistemology, Mind and Language

### Programme Requirements

The Department of Philosophy, in collaboration with the Department of Philosophy at the University of Stirling, offer the following postgraduate taught one-year programme in Epistemology, Mind and Language. It is designed as a research training and preparation year for doctoral studies but may be followed as a self-standing course. The course leads to the following:-

**Taught Element:**

60 credits: PY5101, PY5102, PY5103

60 credits: PY5207, PY5208, PY5308, PY5310, PY5401, PY5402, PY5403, or other 5000-level Philosophy modules as approved by the MLitt Convenor.

**MLitt:**

120 credits as for Taught Element plus PY5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules - Semester 1:

| PY5101 Current Issues in Philosophy 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Mon (at the University of Stirling)  |               |                  |   |
| <p>This module, together with PY5102 Current Issues 2 in semester 2, covers recent work in four central areas of philosophy, each of them in a section of 11 hours. The four areas are Epistemology, Ethics, Philosophy of Language and Philosophy of Mind.</p> <p>Epistemology and Ethics will be covered in PY5101, Philosophy of Language and Philosophy Mind will be covered in PY5102.</p> <p>The Epistemology section will include topics from among the following: definition of knowledge; tracking and reliability conditions for knowledge; modal requirements on knowledge (safety and sensitivity); scepticism, contextualism and closure; peer-disagreement.</p> <p>The Ethics section will include topics from among the following: the relation between morality, human nature and the diversity of human practices and societies; what the concept of rights adds to a morality of duties, goals and reasons; double effect and the moral significance of intention; questions in meta-ethics about the supervenience of the normative on non-normative facts.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Cruft  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Roca Royes   |               |                  |   |

## Philosophy - Epistemology, Mind and Language MLitt & MPhil 2015/6 - November 2015

| PY5103 Research Methods   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm - 4.30 pm Mon (at the University of Stirling)   |               |                  |   |
| <p>The Research Methods module is a core module for all students taking the Graduate Diploma or MLitt programme. The module aims to foster the range of skills required for independent research in philosophy. These skills run from the most concretely practical, such as knowledge of the main research resources and how to access them, to the most abstract, such as the ability to uncover the background and context of a specific issue (how it originated, what framework is presumed in a particular author's treatment of it, what other ways of thinking of the issue might be available, what literature is relevant to it, and so forth) in a way that allows one to develop an independent conception of how the issue is best addressed.</p> <p>While these are general skills that will be important in your work in any branch of philosophy, they can be developed only in application to some substantive philosophical position or issues. For that reason, the module is run as a book seminar; weekly meetings will involve discussion introduced by student presentations on issues drawn from or connected with the chosen book.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100% (Research Proposal - 33%, 4,000 Word Essay - 67%)   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Ebert  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Harris, Dr C Johnston, Dr J Tomalty  |               |                  |   |

### Compulsory module - Semester 2:

| PY5102 Current Issues in Philosophy 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module continues the critical survey of recent work in philosophy begun in PY5101. PY5102 covers Philosophy of Mind and Philosophy of Language as main components.</p> <p>The Philosophy of Mind section will include some of the following topics: the relation between the mental and the physical; mental causation; consciousness; rationalizing explanation; the normative dimension of mentality.</p> <p>The Philosophy of Language section will include topics from among the following: how words come to have content, the relation between use, meaning and saying, the relation between meaning, truth, and reference.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, History of Philosophy, Logic and Metaphysics, Mind and Language, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Ball and Dr E Glick  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Ball and Dr E Glick  |               |                  |   |

**Compulsory module - Whole Year:**

| PY5099 Dissertation for MLitt Programme  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by mid-August. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | None - individual supervision   |               |                  |            |

**Optional modules - Semester 1:**

| PY5205 Origins and History of Analytic Philosophy  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 4.00 pm Tue   |               |                  |   |
| The object of this module is to provide an introduction to central themes in the work of some of the founding figures of the analytic tradition in the late nineteenth and early twentieth century. The primary focus of the module will be on developments in logic and its philosophy initiated in Frege's work and continued in Cambridge by Russell, the early Wittgenstein, and Ramsey. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Epistemology, Mind & Language, or History of Philosophy, or Logic and Metaphysics or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof P Sullivan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof P Sullivan   |               |                  |   |



## Philosophy - Epistemology, Mind and Language MLitt & MPhil 2015/6 - November 2015

| PY5207 Action and Intention   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 9.00 am - 11.00 am Wed  |               |                  |   |
| "Often quoted, sometimes read, rarely understood, [G.E.M.] Anscombe's Intention is nevertheless the defining moment in twentieth-century philosophy of action." So wrote David Velleman. In this module, we shall read, sometimes quote, and - if all goes well - thereby come to understand Anscombe's classic essay. We shall read it alongside other seminal essays - by Davidson, Hornsby, Thompson, and others - with a view to understanding, not only Anscombe's essay, but some of the most interesting debates in twentieth and twenty-first century philosophy of action. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional module for Epistemology, Mind & Language or Philosophy Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 22 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Haddock  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Haddock  |               |                  |   |

### Optional modules - Semester 2:

| PY5324 Philosophy of Logic  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm - 5.00 pm Tue  |               |                  |   |
| This module covers foundational issues in the philosophy of logic. Key questions include: 'Is there a correct logic for natural language?', 'Does indeterminacy demand a revision of classical logic?', 'Is the world precise or vague?'. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Epistemology, Mind & Language, or Logic and Metaphysics, or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Greenough   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr P Greenough   |               |                  |   |

| PY5402 Advanced Epistemology   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 2.00 noon - 2.00 pm Mon  |               |                  |   |
| In this module we will address a range of advanced issues in contemporary Epistemology. Topics will include: Basic Knowledge, Contextualist and Relativist Theories of Knowledge, Epistemic Closure, Sceptical Paradoxes, Lottery Paradoxes, Self-knowledge, The possibility of Apriori Knowledge, Knowledge and Assertion, Knowledge and Practical Interests, Internalism and Externalism, Fallibilism, Intuition, Reliabilism, Minimalist Theories of Knowledge. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Epistemology, Mind and Language, Philosophy Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr P Ebert   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr P Ebert   |               |                  |   |

## Masters in History of Philosophy

### Programme Requirements

The Department of Philosophy, in collaboration with the Department of Philosophy at the University of Stirling, offer the following postgraduate taught one-year programme in the History of Philosophy. It is designed as a research training and preparation year for doctoral studies but may be followed as a self-standing course. The course leads to the following:-

**Taught Element:**

60 credits: PY5101, PY5102, PY5103

60 credits: PY5201, PY5202, PY5203, PY5204, PY5205, PY5209, PY5318, PY5320, PY5321, PY5322, PY5326, PY5401, or other 5000-level Philosophy modules as approved by the MLitt Convenor.

**MLitt:**

120 credits as for Taught Element plus PY5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules - Semester 1:

| PY5101 Current Issues in Philosophy 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Mon (at the University of Stirling)  |               |                  |   |
| <p>This module, together with PY5102 Current Issues 2 in semester 2, covers recent work in four central areas of philosophy, each of them in a section of 11 hours. The four areas are Epistemology, Ethics, Philosophy of Language and Philosophy of Mind.</p> <p>Epistemology and Ethics will be covered in PY5101, Philosophy of Language and Philosophy Mind will be covered in PY5102.</p> <p>The Epistemology section will include topics from among the following: definition of knowledge; tracking and reliability conditions for knowledge; modal requirements on knowledge (safety and sensitivity); scepticism, contextualism and closure; peer-disagreement.</p> <p>The Ethics section will include topics from among the following: the relation between morality, human nature and the diversity of human practices and societies; what the concept of rights adds to a morality of duties, goals and reasons; double effect and the moral significance of intention; questions in meta-ethics about the supervenience of the normative on non-normative facts.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Cruft  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Roca Royes   |               |                  |   |

## Philosophy - History of Philosophy MLitt & MPhil - 2015/6 - November 2015

| PY5103 Research Methods   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm - 4.30 pm Mon (at the University of Stirling)   |               |                  |   |
| <p>The Research Methods module is a core module for all students taking the Graduate Diploma or MLitt programme. The module aims to foster the range of skills required for independent research in philosophy. These skills run from the most concretely practical, such as knowledge of the main research resources and how to access them, to the most abstract, such as the ability to uncover the background and context of a specific issue (how it originated, what framework is presumed in a particular author's treatment of it, what other ways of thinking of the issue might be available, what literature is relevant to it, and so forth) in a way that allows one to develop an independent conception of how the issue is best addressed.</p> <p>While these are general skills that will be important in your work in any branch of philosophy, they can be developed only in application to some substantive philosophical position or issues. For that reason, the module is run as a book seminar; weekly meetings will involve discussion introduced by student presentations on issues drawn from or connected with the chosen book.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100% (Research Proposal - 33%, 4,000 Word Essay - 67%)   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Ebert  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Harris, Dr C Johnston, Dr J Tomalty  |               |                  |   |

### Compulsory module - Semester 2:

| PY5102 Current Issues in Philosophy 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module continues the critical survey of recent work in philosophy begun in PY5101. PY5102 covers Philosophy of Mind and Philosophy of Language as main components.</p> <p>The Philosophy of Mind section will include some of the following topics: the relation between the mental and the physical; mental causation; consciousness; rationalizing explanation; the normative dimension of mentality.</p> <p>The Philosophy of Language section will include topics from among the following: how words come to have content, the relation between use, meaning and saying, the relation between meaning, truth, and reference.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, History of Philosophy, Logic and Metaphysics, Mind and Language, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Ball and Dr E Glick  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Ball and Dr E Glick  |               |                  |   |

**Compulsory module - Whole Year:**

| PY5099 Dissertation for MLitt Programme  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by mid-August. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | None - individual supervision   |               |                  |            |

**Optional modules - Semester 1:**

| PY5201 Classical Philosophy   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Tue  |               |                  |   |
| The module will address topics in ancient metaphysics and ethics concentrating on selected readings from the works of Plato or Aristotle. We shall engage with philosophical questions about love and friendship through lenses provided by the ancient and unrivalled discussions of Plato (dialogues Lysis, Symposium, and Phaedrus ) and Aristotle (Nicomachean Ethics VIII and IX). |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for History of Philosophy, or Moral, Political & Legal Philosophy or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B Sattler  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr B Sattler and Prof S Broadie   |               |                  |   |

## Philosophy - History of Philosophy MLitt & MPhil - 2015/6 - November 2015

| PY5205 Origins and History of Analytic Philosophy  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 4.00 pm Tue   |               |                  |   |
| The object of this module is to provide an introduction to central themes in the work of some of the founding figures of the analytic tradition in the late nineteenth and early twentieth century. The primary focus of the module will be on developments in logic and its philosophy initiated in Frege's work and continued in Cambridge by Russell, the early Wittgenstein, and Ramsey. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Epistemology, Mind & Language, or History of Philosophy, or Logic and Metaphysics or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof P Sullivan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof P Sullivan   |               |                  |   |

### Optional modules - Semester 2:

| PY5203 Kant   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon - 2.00 pm Thu  |               |                  |   |
| This module will be discussing selected topics from Kant's Doctrine of Virtue, which forms part II of Kant's late "Metaphysics of Morals". Topics include duties to oneself, suicide, conscience, lying, animal ethics, the duty of beneficence, gratitude, sympathy, friendship and ethical methodology. The Cambridge translation (ed. M. Gregor) is recommended. Secondary reading: Timmermann, J., Sensen, O., & Trampota, A. (edd.). Kant's "Tugendlehre": A Commentary. Berlin: De Gruyter, 2013. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for History of Philosophy, Moral, Political & Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Timmermann   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Timmermann   |               |                  |   |

| PY5318 Political Philosophy in the Age of Revolutions  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 1.00 pm - 3.00 pm Tue  |               |                  |   |
| <p>This module will focus on liberalism and its critics. We will examine liberalism's central features and explore the variety of liberal theories (from minimal-state 'classical liberalism' to 'welfare capitalism'). Criticisms of liberalism take many forms, and initially we shall investigate the contemporary communitarian critique of liberalism. If time permits we may also look at some feminist theories which are critical of both liberalism and communitarianism.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for History of Philosophy, Moral, Political and Legal Philosophy or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Ashford and Dr B Ho   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Ashford and Dr B Ho   |               |                  |   |

## Masters in Logic and Metaphysics

### Programme Requirements

The Department of Philosophy, in collaboration with the Department of Philosophy at the University of Stirling, offer the following postgraduate taught one-year programme in Logic and Metaphysics. It is designed as a research training and preparation year for doctoral studies but may be followed as a self-standing course. The course leads to the following:-

**Taught Element:**

60 credits: PY5101, PY5102, PY5103

60 credits: PY5205, PY5210, PY5301, PY5302, PY5306, PY5321, PY5322, PY5324, PY5325, PY5503 or other 5000-level Philosophy modules as approved by the MLitt Convenor.

**MLitt:**

120 credits as for Taught Element plus PY5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules - Semester 1:

| PY5101 Current Issues in Philosophy 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Mon (at the University of Stirling)  |               |                  |   |
| <p>This module, together with PY5102 Current Issues 2 in semester 2, covers recent work in four central areas of philosophy, each of them in a section of 11 hours. The four areas are Epistemology, Ethics, Philosophy of Language and Philosophy of Mind.</p> <p>Epistemology and Ethics will be covered in PY5101, Philosophy of Language and Philosophy Mind will be covered in PY5102.</p> <p>The Epistemology section will include topics from among the following: definition of knowledge; tracking and reliability conditions for knowledge; modal requirements on knowledge (safety and sensitivity); scepticism, contextualism and closure; peer-disagreement.</p> <p>The Ethics section will include topics from among the following: the relation between morality, human nature and the diversity of human practices and societies; what the concept of rights adds to a morality of duties, goals and reasons; double effect and the moral significance of intention; questions in meta-ethics about the supervenience of the normative on non-normative facts.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Cruft  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Roca Royes   |               |                  |   |

## Philosophy - Logic and Metaphysics MLitt & MPhil - 2015/6 - November 2015

| PY5103 Research Methods   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm - 4.30 pm Mon (at the University of Stirling)   |               |                  |   |
| <p>The Research Methods module is a core module for all students taking the Graduate Diploma or MLitt programme. The module aims to foster the range of skills required for independent research in philosophy. These skills run from the most concretely practical, such as knowledge of the main research resources and how to access them, to the most abstract, such as the ability to uncover the background and context of a specific issue (how it originated, what framework is presumed in a particular author's treatment of it, what other ways of thinking of the issue might be available, what literature is relevant to it, and so forth) in a way that allows one to develop an independent conception of how the issue is best addressed.</p> <p>While these are general skills that will be important in your work in any branch of philosophy, they can be developed only in application to some substantive philosophical position or issues. For that reason, the module is run as a book seminar; weekly meetings will involve discussion introduced by student presentations on issues drawn from or connected with the chosen book.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100% (Research Proposal - 33%, 4,000 Word Essay - 67%)   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Ebert  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Harris, Dr C Johnston, Dr J Tomalty  |               |                  |   |

### Compulsory module - Semester 2:

| PY5102 Current Issues in Philosophy 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module continues the critical survey of recent work in philosophy begun in PY5101. PY5102 covers Philosophy of Mind and Philosophy of Language as main components.</p> <p>The Philosophy of Mind section will include some of the following topics: the relation between the mental and the physical; mental causation; consciousness; rationalizing explanation; the normative dimension of mentality.</p> <p>The Philosophy of Language section will include topics from among the following: how words come to have content, the relation between use, meaning and saying, the relation between meaning, truth, and reference.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, History of Philosophy, Logic and Metaphysics, Mind and Language, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Ball and Dr E Glick  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Ball and Dr E Glick  |               |                  |   |



**Compulsory module - Whole Year:**

| PY5099 Dissertation for MLitt Programme  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by mid-August. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | None - individual supervision   |               |                  |            |

**Optional modules - Semester 1:**

| PY5205 Origins and History of Analytic Philosophy  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 4.00 pm Tue   |               |                  |   |
| The object of this module is to provide an introduction to central themes in the work of some of the founding figures of the analytic tradition in the late nineteenth and early twentieth century. The primary focus of the module will be on developments in logic and its philosophy initiated in Frege's work and continued in Cambridge by Russell, the early Wittgenstein, and Ramsey. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Epistemology, Mind & Language, or History of Philosophy, or Logic and Metaphysics or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof P Sullivan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof P Sullivan   |               |                  |   |

**Optional modules - Semester 2:**

| PY5302 Advanced Logic B: Classical Metatheory   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Mon  |               |                  |   |
| <p>This module begins with elementary aspects of the theory of cardinality, concentrating on equinumerosity and denumerability. The next topic is computability, focusing on two apparently quite different characterisations of this notion: computability by Turing machines and recursive functions. Fairly complete proofs of their equivalence are given. (Ultimately, we need this notion to give exact sense to the notion of a formal system.) This material serves as background to the remainder of the module which establishes the famous limitative results of Gödel (incompleteness of arithmetic), Tarski (non-definability of arithmetic truth), and Church (undecidability of first-order logic). To obtain these results we must show that the recursive functions are representable in a formal theory of the arithmetic of the natural numbers.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Logic and Metaphysics, Philosophy, Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P Milne   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof P Milne   |               |                  |   |

| PY5324 Philosophy of Logic   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 3.00 pm - 5.00 pm Tue  |               |                  |   |
| <p>This module covers foundational issues in the philosophy of logic. Key questions include: 'Is there a correct logic for natural language?', 'Does indeterminacy demand a revision of classical logic?', 'Is the world precise or vague?'.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Epistemology, Mind & Language, or Logic and Metaphysics, or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr P Greenough   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr P Greenough   |               |                  |   |

| PY5325 Texts in Contemporary Metaphysics  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Fri   |               |                  |   |
| <p>This module will focus on puzzles about and theories of causation, mental causation, and group agency. We will read a selection of contemporary articles and book excerpts on these subjects, covering questions such as: What is causation? What philosophical puzzles do different theories of causation bring up? For which theories of the mind is mental causation a problem? How many problems of mental causation are there anyway? Are there group agents that constitute agents in their own right, independently of the individual agents that make them up? If so, how can such a group be in control of what it does? How does it causally influence what happens in our world? By the end of the module, students will understand some of the major contemporary views on these questions and will be able to engage critically with those views.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Logic and Metaphysics or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Crean  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Crean  |               |                  |   |

## Masters in Moral, Political and Legal Philosophy

### Programme Requirements

The Department of Philosophy, in collaboration with the Department of Philosophy at the University of Stirling, offer the following postgraduate taught one-year programme in Moral, Political and Legal Philosophy. It is designed as a research training and preparation year for doctoral studies but may be followed as a self-standing course. The course leads to the following:-

**Taught Element:**

60 credits: PY5101, PY5102, PY5103

60 credits: PY5203, PY5204, PY5312, PY5315, PY5318, PY5319, PY5326 or other 5000-level Philosophy modules as approved by the MLitt Convenor.

**MLitt:**

120 credits as for Taught Element plus PY5099

**MPhil:**

120 credits as for Taught Element plus a thesis of not more than 40,000 words

### Compulsory modules - Semester 1:

| PY5101 Current Issues in Philosophy 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Mon (at the University of Stirling)  |               |                  |   |
| <p>This module, together with PY5102 Current Issues 2 in semester 2, covers recent work in four central areas of philosophy, each of them in a section of 11 hours. The four areas are Epistemology, Ethics, Philosophy of Language and Philosophy of Mind.</p> <p>Epistemology and Ethics will be covered in PY5101, Philosophy of Language and Philosophy Mind will be covered in PY5102.</p> <p>The Epistemology section will include topics from among the following: definition of knowledge; tracking and reliability conditions for knowledge; modal requirements on knowledge (safety and sensitivity); scepticism, contextualism and closure; peer-disagreement.</p> <p>The Ethics section will include topics from among the following: the relation between morality, human nature and the diversity of human practices and societies; what the concept of rights adds to a morality of duties, goals and reasons; double effect and the moral significance of intention; questions in meta-ethics about the supervenience of the normative on non-normative facts.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Cruft  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Roca Royes   |               |                  |   |

## Philosophy - Moral, Political and Legal Philosophy MLitt & MPhil - 2015/6 - November 2015

| PY5103 Research Methods   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm - 4.30 pm Mon (at the University of Stirling)   |               |                  |   |
| <p>The Research Methods module is a core module for all students taking the Graduate Diploma or MLitt programme. The module aims to foster the range of skills required for independent research in philosophy. These skills run from the most concretely practical, such as knowledge of the main research resources and how to access them, to the most abstract, such as the ability to uncover the background and context of a specific issue (how it originated, what framework is presumed in a particular author's treatment of it, what other ways of thinking of the issue might be available, what literature is relevant to it, and so forth) in a way that allows one to develop an independent conception of how the issue is best addressed.</p> <p>While these are general skills that will be important in your work in any branch of philosophy, they can be developed only in application to some substantive philosophical position or issues. For that reason, the module is run as a book seminar; weekly meetings will involve discussion introduced by student presentations on issues drawn from or connected with the chosen book.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100% (Research Proposal - 33%, 4,000 Word Essay - 67%)   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Ebert  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Harris, Dr C Johnston, Dr J Tomalty  |               |                  |   |

### Compulsory module - Semester 2:

| PY5102 Current Issues in Philosophy 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module continues the critical survey of recent work in philosophy begun in PY5101. PY5102 covers Philosophy of Mind and Philosophy of Language as main components.</p> <p>The Philosophy of Mind section will include some of the following topics: the relation between the mental and the physical; mental causation; consciousness; rationalizing explanation; the normative dimension of mentality.</p> <p>The Philosophy of Language section will include topics from among the following: how words come to have content, the relation between use, meaning and saying, the relation between meaning, truth, and reference.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, History of Philosophy, Logic and Metaphysics, Mind and Language, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Ball and Dr E Glick  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Ball and Dr E Glick  |               |                  |   |

**Compulsory module - Whole Year:**

| PY5099 Dissertation for MLitt Programme  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by mid-August. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | None - individual supervision   |               |                  |            |

**Optional modules - Semester 1:**

| PY5201 Classical Philosophy   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Tue  |               |                  |   |
| The module will address topics in ancient metaphysics and ethics concentrating on selected readings from the works of Plato or Aristotle. We shall engage with philosophical questions about love and friendship through lenses provided by the ancient and unrivalled discussions of Plato (dialogues Lysis, Symposium, and Phaedrus ) and Aristotle (Nicomachean Ethics VIII and IX). |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for History of Philosophy, or Moral, Political & Legal Philosophy or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B Sattler  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr B Sattler and Prof S Broadie   |               |                  |   |

## Philosophy - Moral, Political and Legal Philosophy MLitt & MPhil - 2015/6 - November 2015

| PY5319 Topics in Recent Moral Theory   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 4.00 pm Thu   |               |                  |   |
| This module aims to provide in-depth critical discussion of selected work in ethics from the last five years or so. Topics will be chosen in consultation with students. The module may range into meta-ethics as well as normative moral theory and will take the form of seminars with detailed discussion of a selected book or series of papers. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Moral, Political and Legal Philosophy or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Snedegar and Dr T Pummer   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Snedegar and Dr T Pummer   |               |                  |   |

### Optional modules - Semester 2:

| PY5203 Kant   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon - 2.00 pm Thu  |               |                  |   |
| This module will be discussing selected topics from Kant's Doctrine of Virtue, which forms part II of Kant's late "Metaphysics of Morals". Topics include duties to oneself, suicide, conscience, lying, animal ethics, the duty of beneficence, gratitude, sympathy, friendship and ethical methodology. The Cambridge translation (ed. M. Gregor) is recommended. Secondary reading: Timmermann, J., Sensen, O., & Trampota, A. (edd.). Kant's "Tugendlehre": A Commentary. Berlin: De Gruyter, 2013. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for History of Philosophy, Moral, Political & Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Timmermann   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Timmermann   |               |                  |   |

## Philosophy - Moral, Political and Legal Philosophy MLitt & MPhil - 2015/6 - November 2015

| PY5312 Aesthetics   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am - 12.00 noon Fri  |               |                  |   |
| This module will consider a number of philosophical questions that arise from reflection on the creation, understanding and evaluation of works of art. Topics to be covered may include the nature of art and the aesthetic, the logic of aesthetic judgement, aesthetic value, interpretation and appreciation. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Moral, Political and Legal Philosophy or Philosophy Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof B Gaut  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof B Gaut  |               |                  |   |

| PY5315 Philosophy of Law   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Tue   |               |                  |   |
| This module will feature multiple independent topics in the philosophy of law. One of them will be the scope of legal personhood. Other possible topics include the normativity of the law, the use of the law to enforce morality, and the use of law to deter coercion, exploitation and blackmail. Which of these further topics are actually covered will be determined by the preferences of those enrolled. No prior exposure to philosophy of law will be presumed. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Moral, Political and Legal Philosophy or Philosophy Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B Sachs   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr B Sachs   |               |                  |   |

| PY5318 Political Philosophy in the Age of Revolutions   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 1.00 pm - 3.00 pm Tue  |               |                  |   |
| This module will focus on liberalism and its critics. We will examine liberalism's central features and explore the variety of liberal theories (from minimal-state 'classical liberalism' to 'welfare capitalism'). Criticisms of liberalism take many forms, and initially we shall investigate the contemporary communitarian critique of liberalism. If time permits we may also look at some feminist theories which are critical of both liberalism and communitarianism. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for History of Philosophy, Moral, Political and Legal Philosophy or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Ashford and Dr B Ho   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Ashford and Dr B Ho   |               |                  |   |



## Masters in Philosophy

### Programme Requirements

The Department of Philosophy, in collaboration with the Department of Philosophy at the University of Stirling, offer the following postgraduate taught one-year programme in Philosophy. It is designed as a research training and preparation year for doctoral studies but may be followed as a self-standing course. The course leads to the following:-

**Taught Element:**

60 credits: PY5101, PY5102 and PY5103

60 credits: PY5201 - PY5502, ML5201, ML5202 including at least one of PY5201 - PY5205.

**MLitt:**

120 credits as for the Taught Element plus PY5099

**MPhil:**

120 credits as for the Taught Element plus a thesis of not more than 40,000 words.

### Compulsory modules - Semester 1:

| PY5101 Current Issues in Philosophy 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Mon (at the University of Stirling)  |               |                  |   |
| <p>This module, together with PY5102 Current Issues 2 in semester 2, covers recent work in four central areas of philosophy, each of them in a section of 11 hours. The four areas are Epistemology, Ethics, Philosophy of Language and Philosophy of Mind.</p> <p>Epistemology and Ethics will be covered in PY5101, Philosophy of Language and Philosophy Mind will be covered in PY5102.</p> <p>The Epistemology section will include topics from among the following: definition of knowledge; tracking and reliability conditions for knowledge; modal requirements on knowledge (safety and sensitivity); scepticism, contextualism and closure; peer-disagreement.</p> <p>The Ethics section will include topics from among the following: the relation between morality, human nature and the diversity of human practices and societies; what the concept of rights adds to a morality of duties, goals and reasons; double effect and the moral significance of intention; questions in meta-ethics about the supervenience of the normative on non-normative facts.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr R Cruft  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Roca Royes   |               |                  |   |

## Philosophy - Philosophy MLitt & MPhil - 2015/6 - November 2015

| PY5103 Research Methods   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 pm - 4.30 pm Mon (at the University of Stirling)   |               |                  |   |
| <p>The Research Methods module is a core module for all students taking the Graduate Diploma or MLitt programme. The module aims to foster the range of skills required for independent research in philosophy. These skills run from the most concretely practical, such as knowledge of the main research resources and how to access them, to the most abstract, such as the ability to uncover the background and context of a specific issue (how it originated, what framework is presumed in a particular author's treatment of it, what other ways of thinking of the issue might be available, what literature is relevant to it, and so forth) in a way that allows one to develop an independent conception of how the issue is best addressed.</p> <p>While these are general skills that will be important in your work in any branch of philosophy, they can be developed only in application to some substantive philosophical position or issues. For that reason, the module is run as a book seminar; weekly meetings will involve discussion introduced by student presentations on issues drawn from or connected with the chosen book.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100% (Research Proposal - 33%, 4,000 Word Essay - 67%)   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Ebert  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Harris, Dr C Johnston, Dr J Tomalty  |               |                  |   |

### Compulsory module - Semester 2:

| PY5102 Current Issues in Philosophy 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Wed  |               |                  |   |
| <p>This module continues the critical survey of recent work in philosophy begun in PY5101. PY5102 covers Philosophy of Mind and Philosophy of Language as main components.</p> <p>The Philosophy of Mind section will include some of the following topics: the relation between the mental and the physical; mental causation; consciousness; rationalizing explanation; the normative dimension of mentality.</p> <p>The Philosophy of Language section will include topics from among the following: how words come to have content, the relation between use, meaning and saying, the relation between meaning, truth, and reference.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Epistemology, History of Philosophy, Logic and Metaphysics, Mind and Language, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr D Ball and Dr E Glick  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr D Ball and Dr E Glick  |               |                  |   |

Compulsory module - Whole Year:

| PY5099 Dissertation for MLitt Programme  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.  |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by mid-August. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Epistemology, Mind and Language, Logic and Metaphysics, History of Philosophy, Moral, Political and Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | None - individual supervision   |               |                  |            |

At Least one of:

| PY5201 Classical Philosophy   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am - 1.00 pm Tue  |               |                  |   |
| The module will address topics in ancient metaphysics and ethics concentrating on selected readings from the works of Plato or Aristotle. We shall engage with philosophical questions about love and friendship through lenses provided by the ancient and unrivalled discussions of Plato (dialogues Lysis, Symposium, and Phaedrus ) and Aristotle (Nicomachean Ethics VIII and IX). |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for History of Philosophy, or Moral, Political & Legal Philosophy or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B Sattler  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr B Sattler and Prof S Broadie   |               |                  |   |

## Philosophy - Philosophy MLitt & MPhil - 2015/6 - November 2015

| PY5203 Kant   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon - 2.00 pm Thu  |               |                  |   |
| This module will be discussing selected topics from Kant's Doctrine of Virtue, which forms part II of Kant's late "Metaphysics of Morals". Topics include duties to oneself, suicide, conscience, lying, animal ethics, the duty of beneficence, gratitude, sympathy, friendship and ethical methodology. The Cambridge translation (ed. M. Gregor) is recommended. Secondary reading: Timmermann, J., Sensen, O., & Trampota, A. (edd.). Kant's "Tugendlehre": A Commentary. Berlin: De Gruyter, 2013. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for History of Philosophy, Moral, Political & Legal Philosophy and Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Timmermann   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Timmermann   |               |                  |   |

| PY5205 Origins and History of Analytic Philosophy  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 4.00 pm Tue   |               |                  |   |
| The object of this module is to provide an introduction to central themes in the work of some of the founding figures of the analytic tradition in the late nineteenth and early twentieth century. The primary focus of the module will be on developments in logic and its philosophy initiated in Frege's work and continued in Cambridge by Russell, the early Wittgenstein, and Ramsey. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Epistemology, Mind & Language, or History of Philosophy, or Logic and Metaphysics or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof P Sullivan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof P Sullivan   |               |                  |   |

Optional modules - Semester 1:

| PY5207 Action and Intention   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 9.00 am - 11.00 am Wed  |               |                  |   |
| "Often quoted, sometimes read, rarely understood, [G.E.M.] Anscombe's Intention is nevertheless the defining moment in twentieth-century philosophy of action." So wrote David Velleman. In this module, we shall read, sometimes quote, and - if all goes well - thereby come to understand Anscombe's classic essay. We shall read it alongside other seminal essays - by Davidson, Hornsby, Thompson, and others - with a view to understanding, not only Anscombe's essay, but some of the most interesting debates in twentieth and twenty-first century philosophy of action. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional module for Epistemology, Mind & Language or Philosophy Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 22 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Haddock  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Haddock  |               |                  |   |

| PY5319 Topics in Recent Moral Theory   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 4.00 pm Thu   |               |                  |   |
| This module aims to provide in-depth critical discussion of selected work in ethics from the last five years or so. Topics will be chosen in consultation with students. The module may range into meta-ethics as well as normative moral theory and will take the form of seminars with detailed discussion of a selected book or series of papers. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Moral, Political and Legal Philosophy or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Snedegar and Dr T Pummer   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Snedegar and Dr T Pummer   |               |                  |   |

Optional modules - Semester 2:

| PY5302 Advanced Logic B: Classical Metatheory   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Mon  |               |                  |   |
| <p>This module begins with elementary aspects of the theory of cardinality, concentrating on equinumerosity and denumerability. The next topic is computability, focusing on two apparently quite different characterisations of this notion: computability by Turing machines and recursive functions. Fairly complete proofs of their equivalence are given. (Ultimately, we need this notion to give exact sense to the notion of a formal system.) This material serves as background to the remainder of the module which establishes the famous limitative results of Gödel (incompleteness of arithmetic), Tarski (non-definability of arithmetic truth), and Church (undecidability of first-order logic). To obtain these results we must show that the recursive functions are representable in a formal theory of the arithmetic of the natural numbers.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Logic and Metaphysics, Philosophy, Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof P Milne   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof P Milne   |               |                  |   |

| PY5312 Aesthetics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 10.00 am - 12.00 noon Fri  |               |                  |   |
| <p>This module will consider a number of philosophical questions that arise from reflection on the creation, understanding and evaluation of works of art. Topics to be covered may include the nature of art and the aesthetic, the logic of aesthetic judgement, aesthetic value, interpretation and appreciation.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Moral, Political and Legal Philosophy or Philosophy Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof B Gaut  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof B Gaut  |               |                  |   |

| PY5315 Philosophy of Law   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Tue   |               |                  |   |
| This module will feature multiple independent topics in the philosophy of law. One of them will be the scope of legal personhood. Other possible topics include the normativity of the law, the use of the law to enforce morality, and the use of law to deter coercion, exploitation and blackmail. Which of these further topics are actually covered will be determined by the preferences of those enrolled. No prior exposure to philosophy of law will be presumed. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Moral, Political and Legal Philosophy or Philosophy Postgraduate Taught Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B Sachs   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr B Sachs   |               |                  |   |

| PY5318 Political Philosophy in the Age of Revolutions   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 1.00 pm - 3.00 pm Tue  |               |                  |   |
| This module will focus on liberalism and its critics. We will examine liberalism's central features and explore the variety of liberal theories (from minimal-state 'classical liberalism' to 'welfare capitalism'). Criticisms of liberalism take many forms, and initially we shall investigate the contemporary communitarian critique of liberalism. If time permits we may also look at some feminist theories which are critical of both liberalism and communitarianism. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for History of Philosophy, Moral, Political and Legal Philosophy or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Ashford and Dr B Ho   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Ashford and Dr B Ho   |               |                  |   |

| PY5324 Philosophy of Logic  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 3.00 pm - 5.00 pm Tue  |               |                  |   |
| This module covers foundational issues in the philosophy of logic. Key questions include: 'Is there a correct logic for natural language?', 'Does indeterminacy demand a revision of classical logic?', 'Is the world precise or vague?'. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Epistemology, Mind & Language, or Logic and Metaphysics, or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Greenough   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr P Greenough   |               |                  |   |

## Philosophy - Philosophy MLitt & MPhil - 2015/6 - November 2015

| PY5325 Texts in Contemporary Metaphysics  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm - 4.00 pm Fri   |               |                  |   |
| <p>This module will focus on puzzles about and theories of causation, mental causation, and group agency. We will read a selection of contemporary articles and book excerpts on these subjects, covering questions such as: What is causation? What philosophical puzzles do different theories of causation bring up? For which theories of the mind is mental causation a problem? How many problems of mental causation are there anyway? Are there group agents that constitute agents in their own right, independently of the individual agents that make them up? If so, how can such a group be in control of what it does? How does it causally influence what happens in our world? By the end of the module, students will understand some of the major contemporary views on these questions and will be able to engage critically with those views.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Logic and Metaphysics or Philosophy Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Crean  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Crean  |               |                  |   |

| PY5402 Advanced Epistemology  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 noon - 2.00 pm Mon  |               |                  |   |
| <p>In this module we will address a range of advanced issues in contemporary Epistemology. Topics will include: Basic Knowledge, Contextualist and Relativist Theories of Knowledge, Epistemic Closure, Sceptical Paradoxes, Lottery Paradoxes, Self-knowledge, The possibility of Apriori Knowledge, Knowledge and Assertion, Knowledge and Practical Interests, Internalism and Externalism, Fallibilism, Intuition, Reliabilism, Minimalist Theories of Knowledge.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Epistemology, Mind and Language, Philosophy Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr P Ebert   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr P Ebert   |               |                  |   |



| ML5201 Film and Issues of European Identity   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 pm Tue and Wed   |               |                  |   |
| <p>A team-taught interdisciplinary module, designed to give an introduction to some central issues in the theory and practice of cinema. Issues covered characteristically include identities, the relation of political power to the cinema, film narrative, gender issues and representation, cinema realism and semiotics. The topics will be drawn from a list including film theory and the philosophy of film, and from aspects of French, Italian, Spanish, German and/or Soviet film. The availability of the module in any given year will be conditional on adequate student numbers.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | <p>Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages with permission of both Schools.</p> |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 22 hours over semester.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | TBC   |               |                  |   |

## School of Physics & Astronomy

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### Master of Science - MSc:

Photonics and Optoelectronic Devices ([link](#))

Physics ([link](#))

#### Doctor of Engineering - EngD:

Photonics ([link](#))

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## EngD in Photonics

<http://www.idcphotonics.hw.ac.uk/>

The EngD degree in Photonics is a 4-year course involving a blend of specialist postgraduate training in all aspects of photonics, tailored to the needs of the photonics industrial sector, and a significant, challenging and original research project undertaken as a partnership between industry and academia. Each research project provides experience in project management (including financial management) and teamwork as well as the opportunity to gain greater understanding of photonics and the business context in which the research is conducted. A significant proportion of the student's time (typically around 70%) is spent within the sponsoring company.

Graduates from the programme will have gained an in-depth understanding of the fundamental properties of photonic materials and practical experience of the technology and operation of a wide range of photonic devices. They will additionally have had extensive experience of research in an industrial environment and have received training in the transferable skills required in such an environment.

The course is organised jointly by Heriot-Watt, Glasgow, St Andrews, and Strathclyde universities. St Andrews will normally be the location for the start of the course and will provide full time teaching in photonics during the first semester of the first year of the course. Students then have a semester of electronic engineering theory and practice at Glasgow and Strathclyde Universities as additional preparation before embarking on their research. Details at:

<http://www.idcphotonics.hw.ac.uk/sites/www.idcphotonics.hw.ac.uk/files/news/CDT%20Applied%20Photonics%20leaflet.pdf>

PH5181 Photonics Laboratory is a compulsory module, and students then normally choose 45 credits from PH5180, PH5182, PH5183, and PH5016. Students also take later in their programme modules amongst those taught by Heriot-Watt, Strathclyde, and Glasgow Universities, and PH5209 and PH5208 which are distance learning courses that may be taken from St Andrews

### Compulsory modules - Semester 1:

| PH5181 Photonics Laboratory 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 5.30 pm Mon, Tue and Thu  |               |                  |   |
| The photonics teaching laboratory gives training in the experimental photonics, and allows students the opportunity to explore photonics practically in a series of chosen open-ended investigations. Students use their knowledge and skills from the lecture modules, supplemented by additional reading, to investigate relevant photonic effects. Phase I involves work in small groups in introductory areas, then phase II allows primarily individual investigation of topics such as the second harmonic generation, optical parametric oscillation, erbium amplifiers, Nd lasers, optical tweezers, spectroscopy, remote sensing of speed, Bragg reflectors, and holography. A formal lab report is included. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Photonics and Optoelectronic Devices Postgraduate Programmes and EngD Programme. |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to a Taught Postgraduate programme within the School.                                 |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 x 2.5-hour practicals.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B D Sinclair   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr B D Sinclair and others  |               |                  |   |

Optional modules - Semester 1:

| PH5180 Laser Physics  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am Mon, Tue, Wed, Thu (TBC)   |               |                  |   |
| This module presents a description of the main physical concepts upon which an understanding of laser materials, operations, and applications can be based. These concepts include a treatment of light-matter interaction, gain, absorption and refractive index, rate-equation theory of lasers, gain and its saturation, frequency selection and tuning in lasers, transient phenomena, resonator and beam optics, and the principles and techniques of ultrashort pulse generation and measurement. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Photonics and Optoelectronic Devices Postgraduate Programmes.<br>Optional for EngD Programme |               |                  |   |
| <b>Pre-requisite(s):</b>  | Admission to a Taught Postgraduate programme within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 lectures/tutorials each week   |               |                  |   |
| <b>Assessment pattern:</b>  | 2.5-hour open-notes Examination = 80%, Coursework = 20%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B D Sinclair   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr B D Sinclair, Dr C T A Brown, Prof M H Dunn, Dr L O'Faholain   |               |                  |   |

| PH5182 Displays and Nonlinear Optics   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| The physics of polymers and liquid crystals is covered, showing the way to the use of semi-conducting polymers as light emitters, and the use of liquid crystals in displays and spatial light modulators. The nonlinear optics section of this module describes the physical ideas and application of second and third order nonlinear optics, including phenomena such as harmonic generation, parametric gain, saturated absorption, nonlinear refraction, Raman scattering, and optical solitons. The final section looks at second order nonlinear effects being exploited in optical parametric amplifiers and oscillators in the optical and THz regions. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Photonics and Optoelectronic Devices Postgraduate Programmes.<br>Optional for EngD Programme |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to a Taught Postgraduate programme within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures and occasional tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 80%, Coursework = 20%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof I D W Samuel   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof I D W Samuel, Prof M H Dunn, Dr M Mazilu, Dr C F Rae   |               |                  |   |

| PH5183 Photonics Applications  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | This module is intended for students in the final year of an MPhys or MSci programme involving the School, for those in the MSc in Photonics and Optoelectronic Devices MSc, and for those on the EngD degree in Photonics. |               |                  |   |
| <b>Planned timetable:</b>  | 9.00 am Mon, Wed, Fri, 11.00 am Wed, Fri, 12.00 noon Mon, Tue, Thu<br>Depending on options taken (TBC)  |               |                  |   |
| <p>Students on this module choose to do two of the following three sections:</p> <p><b>Microphotonics and Plasmonics:</b> This covers the Bragg effect, multilayer mirrors, defects causing confined cavity states, periodicity leading to bandstructure, scaling of bandstructure in reduced frequency, Bloch modes and photonic bandgap. It then considers photonic crystal waveguides, photonic crystal fibres, and supercontinuum generation in photonic crystal fibres. Plasmonics is based on oscillations of the free electrons in a metallic material. Resonances of Plasmons are the basis for a new class of materials called 'Metamaterials'. These are compared with photonic crystals. Applications include super-resolution imaging, optical cloaking, sensing, and surface enhanced Raman scattering.</p> <p><b>Biophotonics:</b> This will introduce students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, lab-on-a-chip concepts and bio-MEMS.</p> <p><b>Optical Trapping and Atom Optics:</b> Quantum physics is one of the most powerful theories in physics yet is at odds with our understanding of reality. In this course we show how laboratories around the world can prepare single atomic particles, ensembles of atoms, light and solid state systems in appropriate quantum states and observe their behaviour. The material includes optical cooling and trapping of atoms and ions, Fermi gases, studies of Bose-Einstein condensation, and matter-wave interferometry.</p> <p>Students must not cover Biophotonics in both this module and PH5016/PH5264, and must not cover Optical Trapping and Atom Optics in both this module and PH5015/PH5267.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Photonics and Optoelectronic Devices Postgraduate Programme.<br>Optional for EngD Programme  |               |                  |   |
| <b>Pre-requisite(s):</b>   | PG - Relevant physics and mathematics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures and occasional tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 80%, Coursework = 20%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Di Falco   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C T A Brown, Dr D Cassettari, Dr M Mazilu, Dr A Di Falco, Dr L O'Faolain, Dr C Penedo  |               |                  |   |

| PH5016 Biophotonics   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Normally only taken in the final year of an MPhys or MSci programme involving the School |               |                  |   |
| <b>Planned timetable:</b>   | 9.00 am Mon, Wed, Fri (TBC)  |               |                  |   |
| <p>The module will expose students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, lab-on-a-chip concepts and bio-MEMS. Two thirds of the module will be taught as lectures, including guest lectures by specialists, with the remaining third consisting of problem-solving exercises, such as writing a specific news piece on a research paper, assessed tutorial sheets and a presentation. A visit to a biomedical research laboratory using various photonics methods will also be arranged.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate programmes in the School<br>Optional for EngD Programme        |               |                  |   |
| <b>Pre-requisite(s):</b>  | PG - Relevant physics and mathematics  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures/tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 80%, Coursework = 20%                                       |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C T A Brown   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C T A Brown, Prof M C Gather, Dr C Penedo   |               |                  |   |

## Optional modules - Distance Learning:

| PH5208 Semiconductor Physics and Devices - Distance Learning   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Academic year:</b>  | 2016/7   |               |                  |   |
| <b>Availability restrictions:</b>  | Distance Learning  |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This is a distance-learning module covering the basic properties of semiconductor physics including their optical and electronic properties, and the low dimensional structures which may be constructed from them; and semiconductor devices ranging from pn junctions, solar cells, and LEDs to lasers, waveguides, optical amplifiers, optical modulators, and detectors. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Engineering Doctorate in Photonics Postgraduate Taught Programme. Postgraduate level module available on-line   |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to a Postgraduate Programme involving the School   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Material, tutorial support, and continuous assessment delivered at a distance by means of Moodle. Students are responsible for ensuring they have internet access. The course covers material equivalent to that covered in 30 conventional lectures. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G A Turnbull  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr G A Turnbull  |               |                  |   |

| PH5209 Polymers and Liquid Crystals for Displays - Distance Learning  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 5  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Academic year:</b>   | 2015/6   |               |                  |   |
| <b>Availability restrictions:</b>   | Distance Learning  |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This is a distance learning module covering the concepts of optoelectronic display devices, including semiconducting polymers, and the properties of liquid crystals. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Engineering Doctorate in Photonics Postgraduate Programme. Postgraduate level module available online   |               |                  |   |
| <b>Pre-requisite(s):</b>  | Admission to a Postgraduate Programme involving the School.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Material, tutorial support, and Coursework delivered at a distance by means of the VLE. Students are responsible for ensuring they have internet access. The module covers material equivalent to that covered in 12 conventional lectures. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 60%, Coursework = 40%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr G Turnbull  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr G Turnbull  |               |                  |   |

## Masters in Photonics and Optoelectronic Devices

[www.st-andrews.ac.uk/physics/msc](http://www.st-andrews.ac.uk/physics/msc)

The primary aim of this twelve-month, full-time programme is to provide specialist postgraduate training in modern optics and semiconductor physics, tailored to the needs of the Photonics industrial sector. The secondary aim is to provide the education required for those wishing to continue in academia on Ph.D. research projects in photonics. There are strong links between our research activities and the teaching of this MSc.

Graduates from the programme will have gained an in-depth understanding of the fundamental properties of optoelectronic materials and practical experience of the technology and operation of a wide range of laser and semiconductor devices. They will additionally have had experience of research, usually in an industrial environment, and have received training in the transferable skills required in such an environment.

The course is organised jointly by the School of Physics & Astronomy at the University of St Andrews and the School of Engineering and Physical Sciences at Heriot-Watt University. Each organisation will act in turn as lead organisation for the course. In 2015-16 the course will be led by Heriot-Watt, and in 2016-17 by St Andrews. Regardless of which institution leads the course, the first semester is spent at St Andrews, and the second semester at Heriot-Watt. For the MSc degree a project is undertaken during the summer months, usually in industry, and is assessed in September.

Taught Element: 120 credits: PH5180 - PH5187

MSc: 120 credits: PH5180 - PH5187

60 credits: PH5177

([www.st-andrews.ac.uk/physics/msc](http://www.st-andrews.ac.uk/physics/msc))

[Note that PH5184 - PH5187 are carried out at Heriot-Watt University under their own module numbers.]

### Compulsory modules - Semester 1:

| PH5180 Laser Physics  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am Mon, Tue, Wed, Thu (TBC)   |               |                  |   |
| This module presents a description of the main physical concepts upon which an understanding of laser materials, operations, and applications can be based. These concepts include a treatment of light-matter interaction, gain, absorption and refractive index, rate-equation theory of lasers, gain and its saturation, frequency selection and tuning in lasers, transient phenomena, resonator and beam optics, and the principles and techniques of ultrashort pulse generation and measurement. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Photonics and Optoelectronic Devices Postgraduate Programmes.<br>Optional for EngD Programme |               |                  |   |
| <b>Pre-requisite(s):</b>  | Admission to a Taught Postgraduate programme within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 lectures/tutorials each week.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2.5-hour open-notes Examination = 80%, Coursework = 20%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B D Sinclair   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr B D Sinclair, Dr C T A Brown, Prof M H Dunn, Dr L O'Faholain   |               |                  |   |



## Physics & Astronomy - Photonics and Optoelectronic Devices - MSc 2015/6 - November 2015

| PH5181 Photonics Laboratory 1   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm - 5.30 pm Mon, Tue and Thu  |               |                  |   |
| <p>The photonics teaching laboratory gives training in the experimental photonics, and allows students the opportunity to explore photonics practically in a series of chosen open-ended investigations. Students use their knowledge and skills from the lecture modules, supplemented by additional reading, to investigate relevant photonic effects. Phase I involves work in small groups in introductory areas, then phase II allows primarily individual investigation of topics such as the second harmonic generation, optical parametric oscillation, erbium amplifiers, Nd lasers, optical tweezers, spectroscopy, remote sensing of speed, Bragg reflectors, and holography. A formal lab report is included.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Photonics and Optoelectronic Devices MSc Programme and EngD Photonics Programme. |               |                  |   |
| <b>Pre-requisite(s):</b>  | Admission to a Taught Postgraduate programme within the School.                                 |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 x 2.5-hour practicals.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B D Sinclair   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr B D Sinclair and others  |               |                  |   |

| PH5182 Displays and Nonlinear Optics  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The physics of polymers and liquid crystals is covered, showing the way to the use of semi-conducting polymers as light emitters, and the use of liquid crystals in displays and spatial light modulators. The nonlinear optics section of this module describes the physical ideas and application of second and third order nonlinear optics, including phenomena such as harmonic generation, parametric gain, saturated absorption, nonlinear refraction, Raman scattering, and optical solitons. The final section looks at second order nonlinear effects being exploited in optical parametric amplifiers and oscillators in the optical and THz regions.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Photonics and Optoelectronic Devices MSc Programme.<br>Optional for EngD Photonics Programme |               |                  |   |
| <b>Pre-requisite(s):</b>  | Admission to a Taught Postgraduate programme within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures and occasional tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 80%, Coursework = 20%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof I D W Samuel   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof I D W Samuel, Prof M H Dunn, Dr M Mazilu, Dr C F Rae   |               |                  |   |

| PH5183 Photonics Applications   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | This module is intended for students in the final year of an MPhys or MSci programme involving the School, for those in the MSc in Photonics and Optoelectronic Devices, and for those on the EngD degree in Photonics. |               |                  |   |
| <b>Planned timetable:</b>   | 9.00 am Mon, Wed, Fri, 11.00 am Wed, Fri, 12.00 noon Mon, Tue, Thu<br>Depending on options taken (TBC)  |               |                  |   |
| <p>Students on this module choose to do two of the following three sections:</p> <p><b>Microphotonics and Plasmonics:</b>This covers the Bragg effect, multilayer mirrors, defects causing confined cavity states, periodicity leading to bandstructure, scaling of bandstructure in reduced frequency, Bloch modes and photonic bandgap. It then considers photonic crystal waveguides, photonic crystal fibres, and supercontinuum generation in photonic crystal fibres. Plasmonics is based on oscillations of the free electrons in a metallic material. Resonances of Plasmons are the basis for a new class of materials called 'Metamaterials'. These are compared with photonic crystals. Applications include super-resolution imaging, optical cloaking, sensing, and surface enhanced Raman scattering.</p> <p><b>Biophotonics:</b>This will introduce students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, lab-on-a-chip concepts and bio-MEMS.</p> <p><b>Optical Trapping and Atom Optics:</b>Quantum physics is one of the most powerful theories in physics yet is at odds with our understanding of reality. In this course we show how laboratories around the world can prepare single atomic particles, ensembles of atoms, light and solid state systems in appropriate quantum states and observe their behaviour. The material includes optical cooling and trapping of atoms and ions, Fermi gases, studies of Bose-Einstein condensation, and matter-wave interferometry.</p> <p>Students must not cover Biophotonics in both this module and PH5016/PH5264, and must not cover Optical Trapping and Atom Optics in both this module and PH5015/PH5267.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Photonics and Optoelectronic Devices MSc Programme.<br>Optional for EngD Photonics Programme   |               |                  |   |
| <b>Pre-requisite(s):</b>  | PG - Relevant physics and mathematics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> ~3 lectures and occasional tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 80%, Coursework = 20%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Di Falco   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C T A Brown, Dr D Cassettari, Dr M Mazilu, Dr A Di Falco, Dr L O'Faolain, Dr C Penedo  |               |                  |   |

**Compulsory modules - Semester 2:**

| <b>PH5184 Photonics Experimental Laboratory 2 (B21HL)</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>   | Available only to students on the Photonics and Optoelectronics MSc programme |               |                  |   |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module is taught at Heriot-Watt University, and forms part of certain taught Master's degrees run collaboratively between St Andrews and Heriot-Watt Universities. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Photonics and Optoelectronic Devices MSc Programme.            |               |                  |   |
| <b>Pre-requisite(s):</b>  | Admission to the Photonics and Optoelectronics MSc.                           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> At Heriot-Watt University                              |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | at Heriot-Watt University   |               |                  |   |

| <b>PH5185 Semiconductor Optoelectronic Devices (B21OD)</b>   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Available only to students on the Photonics and Optoelectronics MSc programme |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module is taught at Heriot-Watt University, and may form part of certain taught Master's degrees run collaboratively between St Andrews and Heriot-Watt Universities. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Photonics and Optoelectronic Devices MSc Programme.            |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to the Photonics and Optoelectronics MSc.                           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> At Heriot-Watt University                              |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | at Heriot-Watt University   |               |                  |   |

| <b>PH5186 Modern Optics (B21FM)</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Available only to students on the Photonics and Optoelectronics MSc programme |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module is taught at Heriot-Watt University, and may form part of certain taught Master's degrees run collaboratively between St Andrews and Heriot-Watt Universities. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Photonics and Optoelectronic Devices MSc Programme.            |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to the Photonics and Optoelectronics MSc.                           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> At Heriot-Watt University                              |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | at Heriot-Watt University   |               |                  |   |

| PH5187 Fibre Optic Communications (B21FC)  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Availability restrictions:</b>  | Available only to students on the Photonics and Optoelectronics MSc programme |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module is taught at Heriot-Watt University, and may form part of certain taught Master's degrees run collaboratively between St Andrews and Heriot-Watt Universities. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Photonics and Optoelectronic Devices MSc Programme.            |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to the Photonics and Optoelectronics MSc.                           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> At Heriot-Watt University                              |               |                  |   |
| <b>Assessment pattern:</b>   | 3-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | at Heriot-Watt University   |               |                  |   |

### Compulsory module for MSc - Summer

| PH5177 Research Project (POED MSc)   |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Availability restrictions:</b>  | This project module is organised and assessed with Heriot Watt as the lead institution in 2015/6 and alternate years thereafter, St Andrews in 2016/17 and alternate years after that. It is available only to those in the Photonics and Optoelectronic Devices MSc programme. |               |                  |        |
| <b>Planned timetable:</b>  | Placement, full time.   |               |                  |        |
| All POED MSc students carry out a ~3-month research project, in most cases carried out at a U.K. company. Part-time students who are industry employees may carry out the project at their own company. Students will have completed a literature survey prior to the project, and write a dissertation on the project which is assessed in September. |   |               |                  |        |
| <b>Programme module type:</b>  | Compulsory for Photonics and Optoelectronic Devices MSc Programme.  |               |                  |        |
| <b>Pre-requisite(s):</b>   | Satisfactory completion of the taught element of Photonics and Optoelectronic Devices MSc programme .   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> About 40 hours a week working on the project, with appropriate levels of supervision   |               |                  |        |
| <b>Assessment pattern:</b>   | Dissertation and Oral Examination = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr B D Sinclair   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr B D Sinclair   |               |                  |        |

## Masters in Physics

**Taught Element:** A total of 120 credits from AS and PH modules at 4000 level and above, including at least 90 credits at 5000 level, the course of study to be approved by the Head of School.

**MSc:** 120 credits as for Taught Element together with a dissertation (PH5301) comprising 3 months full-time study and worth 60 credits.

### Compulsory module for MSc - Summer

| PH5301 Dissertation for MSc Programme  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Availability restrictions:</b>  | Only available to students on the Physics MSc Programme                                      |               |                  |        |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| This dissertation will be supervised by a member of the academic staff who will advise on the choice of subject and provide guidance during the work. The completed dissertation of not more than 15,000 words must be submitted by the stated date in August. |  |               |                  |        |
| <b>Programme module type:</b>  | Compulsory for MSc Physics Postgraduate Programme.   |               |                  |        |
| <b>Pre-requisite(s):</b>   | Successful completion of the first two semesters of the Physics MSc programme in the School. |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Weekly meetings with supervisor                                       |               |                  |        |
| <b>Assessment pattern:</b>   | Dissertation and Oral Examination = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | TBC  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | TBC  |               |                  |        |

Optional modules:

| AS4010 Extragalactic Astronomy   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 12.00 noon Mon, Tue, Thu (TBC)                                       |               |                  |   |
| <p>This module introduces the basic elements of extragalactic astronomy. This includes the morphological, structural and spectral properties of elliptical, spiral, quiescent and star-forming galaxies. We study how galaxy populations change from the distant galaxies in the early Universe into those observed in our local neighbourhood, including the coincident growth of super massive black holes at the centres of massive galaxies. Galaxy formation theory is introduced in relation to the growth of structure in a cold-dark matter, and galaxy evolution in regions of high and low density is investigated. The module includes a look at modern instrumentation used in extragalactic astrophysics.</p> <p>Specialist lecturers from within the galaxy evolution research group will provide a direct link between material learnt in lectures and research currently being undertaken at the University of St Andrews.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures occasionally replaced by tutorials |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 80%, Coursework = 20%                   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr V Wild  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr V Wild, Dr A M Weijmans (TBC)                                     |               |                  |   |

| AS4011 The Physics of Nebulae and Stars 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 10.00 am Mon, Tue, Thu (TBC)  |               |                  |   |
| <p>This module introduces the physics of astrophysical plasmas, as found in stars and interstellar space, where interactions between matter and radiation play a dominant role. A variety of absorption, emission, and scattering processes are introduced to describe exchanges of energy and momentum, which link up in various contexts to control the state and motion of the matter, to regulate the flow of light through the matter, and to impress fingerprints on the emergent spectrum. The theory is developed in sufficient detail to illustrate how astronomers interpret observed spectra to infer physical properties of astrophysical plasmas. Applications are considered to photo-ionise nebulae, interstellar shocks, nova and supernova shells, accretion discs, quasar-absorption-line clouds, radio synchrotron jets, radio pulsars, and x-ray plasmas. Monte-Carlo computational techniques are introduced to model radiative transfer.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures occasionally replaced by whole-group tutorials. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 75%, Coursework = 25%                                |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Wood   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Wood (TBC)   |               |                  |   |

| AS4012 The Physics of Nebulae and Stars 2  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am odd Mon, Wed, Fri, 3.00 pm even Tue (TBC)                                |               |                  |   |
| This module develops the physics of stellar interiors and atmospheres from the basic equations of stellar structure introduced in AS2001/AS2101 using the radiative transfer concepts developed in Nebulae and Stars I. Topics include: the equation of state that provides pressure support at the high temperatures and densities found in normal and white-dwarf stars; the interaction of radiation with matter, both in terms of radiation-pressure support in super-massive stars and in terms of the role of opacity in controlling the flow of energy from the stellar interior to the surface; the equation of radiative transfer and the effects of local temperatures, pressures and velocity fields on the continuum and line absorption profiles in the emergent spectrum. Computer-aided tutorial exercises illustrate the computational schemes that represent one of the triumphs of late twentieth-century physics, in their ability to predict the observable properties of a star from its radius and luminosity, which in turn are determined by its mass, age and chemical composition. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures occasionally replaced by whole-group tutorials. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 75%, Coursework = 25%                                |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof A C Cameron  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof A C Cameron and Dr P Woitke (TBC)  |               |                  |   |

| AS4015 Gravitational and Accretion Physics  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon odd Mon, Wed, Fri, 3.00 pm even Mon (TBC)                              |               |                  |   |
| This theoretical module is open to both physics and astrophysics students. It aims to explore the basics of gravitational dynamics and its application to systems ranging from planetary and stellar systems to clusters of galaxies. The dynamics responsible for the growth of super-massive black holes in galaxies and the accretion discs in stellar systems are also covered. Starting from two-body motion and orbits under a central-force law, the module describes the calculation of extended potentials and their associated orbits. The use of the virial theorem and the statistical treatment of large numbers of selfgravitating bodies is then developed with application to stellar systems. Applications of these methods are made to several different astrophysical objects ranging from collisions in globular clusters to the presence of dark matter in the universe. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Physics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures occasionally replaced by whole-group tutorials. |               |                  |   |
| <b>Assessment pattern:</b>  | <b>As used by St Andrews:</b><br>2-hour Written Examination = 100%                |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof I Bonnell  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof I Bonnell (TBC)  |               |                  |   |

## Physics & Astronomy - Physics - MSc 2015/6 - November 2015

| AS4025 Observational Astrophysics  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 5.30 pm Mon and Thu, plus some nights. (TBC)                                    |               |                  |   |
| <p>This is an observational and laboratory-based module that introduces students to the hands-on practical aspects of planning observing programmes, conducting the observations and reducing and analysing the data. Students use the James Gregory Telescope for CCD imaging and structural analysis of galaxies, and for CCD photometry of transiting exoplanet candidates. Further sources of data may be made available from international observatories. Observations are also secured at the University Observatory using a student-built radio telescope to observe low-frequency radio emission from the Galactic plane.</p> <p>Students gain experience in observation, data analysis, the UNIX operating system, standard astronomical software packages and modelling, and report writing.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 x 3.5-hour laboratories plus supervised work in the observatory. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Cyganowski   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Scholz, Dr J Greaves, Dr P A S Cruickshank, Dr C Cyganowski (TBC)                    |               |                  |   |

| AS5002 Magnetofluids and Space Plasmas  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | This module is intended for students in the final year of an MPhys or MSci programme involving the School |               |                  |   |
| <b>Planned timetable:</b>   | 11.00 am Mon, Tue, Thu (TBC)  |               |                  |   |
| <p>This module is aimed at both physics and astrophysics students with interests in the physics of plasmas. The interaction of a magnetic field with an ionized gas (or plasma) is fundamental to many problems in astrophysics, solar-terrestrial physics and efforts to harness fusion power using tokamaks. The syllabus comprises: Solar-like magnetic activity on other stars. The basic equations of magneto-hydrodynamics. Stellar coronae: X-ray properties and energetics of coronal loops. Energetics of magnetic field configurations. MHD waves and propagation of information. Solar and stellar dynamos: mean field models. Star formation: properties of magnetic cloud cores, magnetic support. Physics of accretion discs: transport of mass and angular momentum. Accretion on to compact objects and protostars. Rotation and magnetic fields in protostellar discs. Rotation distributions of young solar-type stars. Magnetic braking via a hot, magnetically channelled stellar wind.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate programmes within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures or tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof M M Jardine  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof M M Jardine (TBC)  |               |                  |   |



| AS5003 Contemporary Astrophysics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 12.00 noon Wed, Fri and 3.00 pm Mon (TBC)  |               |                  |   |
| This module will provide an annual survey of the latest, most interesting, developments in astronomy and astrophysics at the research level. Emphasis will be placed upon the application of knowledge and expertise gained by students in their other modules to these current research topics. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate programmes in the School.  |               |                  |   |
| <b>Pre-requisite(s):</b>   | Substantial astronomy knowledge and skills.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures and some tutorials   |               |                  |   |
| <b>Assessment pattern:</b>   | <b>As defined by QAA:</b><br>Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0% |               |                  |   |
|  | <b>As used by St Andrews:</b><br>2-hour Written Examination = 100%                                     |               |                  |   |
| <b>Re-Assessment:</b>  | Oral Re-Assessment, capped at grade 7  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Helling   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Helling, Dr G Laibe, Dr C Villforth (TBC)   |               |                  |   |

| PH4022 Nuclear and Particle Physics   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 9.00 am Wed and Fri (TBC)                          |               |                  |   |
| The aim of this module is to describe in terms of appropriate models, the structure and properties of the atomic nucleus, the classification of fundamental particles and the means by which they interact. The syllabus includes: nuclear sizes, binding energy, spin dependence of the strong nuclear force; radioactivity, the semi-empirical mass formula; nuclear stability, the shell model, magic numbers; spin-orbit coupling; energetics of beta-decay, alpha-decay and spontaneous fission; nuclear reactions, resonances; fission; electroweak and colour interactions, classification of particles as intermediate bosons, leptons or hadrons. Standard model of leptons and quarks, and ideas that go beyond the standard model. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Physics                        |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures or tutorials.    |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 90%, Coursework = 10% |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Kohnle  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Kohnle  |               |                  |   |

| PH4025 Physics of Electronic Devices   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am even Mon, Tue, Thu, 3.00 pm odd Mon (TBC) |               |                  |   |
| <p>The module describes the physical phenomena involved in the operation of semiconductor devices, and then shows how the phenomena determine the properties of specific devices such as the transistor. Although only a few devices are described, the student taking the module should acquire a sufficient background to understand a wide variety of modern semiconductor devices. The module covers: semiconductor properties: band gaps, optical and electrical properties; conduction in an electric field and by diffusion; factors determining the concentrations of electrons and holes; the continuity equation; properties of pn junctions and Schottky diodes; typical devices: bipolar transistor, field-effect transistor, MOSFET, light emitting diodes, semiconductor lasers.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics                       |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures or tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%                 |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr G Turnbull                                     |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr G Turnbull, Dr L O'Faolain                     |               |                  |   |

| PH4026 Signals and Information   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am odd Mon, Wed, Fri, 2.00 pm even Mon (TBC) |               |                  |   |
| <p>This module gives an introduction to what are signals and information, and how they are measured and processed. It also covers the importance of coherent techniques such as frequency modulation and demodulation and phase sensitive detection. The first part of the module concentrates on information theory and the basics of measurement, with examples. Coherent signal processing is then discussed, including modulation/demodulation, frequency mixing and digital modulation. Data compression and reduction ideas are illustrated with real examples and multiplexing techniques are introduced. The module concludes with a discussion of basic antenna principles, link gain, and applications to radar.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics                        |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures or tutorials.    |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%                  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr P Cruickshank                                   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr P Cruickshank                                   |               |                  |   |

| PH4027 Optoelectronics and Nonlinear Optics   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 9.00 am Tue, Thu, 3.00 pm Fri (TBC)             |               |                  |   |
| The module provides an introduction to the basic physics underpinning optoelectronics and nonlinear optics, and a perspective on contemporary developments in the two fields. The syllabus includes: an overview of optoelectronic devices and systems; optical modulators; acousto-optics; Bragg and Raman-Nath; propagation of light in anisotropic media; electro-optics; waveguide and fibre optics; modes of planar guides; nonlinear optics; active and passive processes in second and third order; second harmonic generation; phase matching; coupled wave equations; parametric oscillators; self-focusing and self-phase-modulation; optical bistability; phase conjugation; solitons; Rayleigh; Raman and Brillouin scattering. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Physics                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures or tutorials. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%               |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof I D W Samuel                               |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof I D W Samuel, Dr M Mazilu                  |               |                  |   |

| PH4028 Advanced Quantum Mechanics  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 12.00 noon Tue and Thu (TBC)                          |               |                  |   |
| This module builds on the material of PH3061 and PH3062 Quantum Mechanics 1 and 2 to present some of the important current and advanced topics in quantum mechanics. The mathematics of complex analysis is introduced to allow this to be used for relevant quantum mechanics problems. Scattering theory is developed using partial waves and Green's functions, leading to a discussion of quantum degenerate gases. Advanced topics in perturbation theory including WKB approximation for exploring differential equations. |   |               |                  |   |
| The density matrix formalism as the general state description in open quantum systems is presented; open system dynamics are described within the formalism of the density matrix master equation. Quantum information processing is covered, including concepts such as qubits, quantum entanglement, quantum teleportation, and measurement based quantum computing.   |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics                           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures and some tutorials. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%                     |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B Lovett   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr B Lovett   |               |                  |   |

## Physics & Astronomy - Physics - MSc 2015/6 - November 2015

| PH4031 Fluids  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am even Mon, Tue, Thu, 2.00 pm odd Mon (TBC)    |               |                  |   |
| <p>This module provides an introduction to fluid dynamics, and addresses the underlying physics behind many everyday flows that we see around us. It starts from a derivation of the equations of hydrodynamics and introduces the concept of vorticity and the essentials of vorticity dynamics. The influence of viscosity and the formation of boundary layers is described with some straightforward examples. The effect of the compressibility of a fluid is introduced and applied to shock formation and to the conservation relations that describe flows through shocks. A simple treatment of waves and instabilities then allows a comparison between theory and readily-observed structures in clouds, rivers and shorelines.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics                           |               |                  |   |
| <b>Required for:</b>   | AS5002 (strongly recommended, though not required)    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures and some tutorials. |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%                     |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof M Jardine  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof M Jardine  |               |                  |   |

| PH4032 Special Relativity and Fields   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 pm Tue, 4.00 pm Tue, Fri (TBC)  |               |                  |   |
| <p>The module analyses classical fields in physics such as the electromagnetic field. Fields are natural ingredients of relativity, because they serve to communicate forces with a finite velocity (the speed of light). The module covers the tensor formalism of special relativity, relativistic dynamics, the Lorentz force, Maxwell's equations, retarded potentials, symmetries and conservation laws, and concludes with an outlook to general relativity.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics  |               |                  |   |
| <b>Required for:</b>   | PH5011 (recommended, though not required)  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures or tutorials.                                  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 75%, Coursework (assessed tutorial questions) = 25% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr N Korolkova   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr N Korolkova   |               |                  |   |

| PH4034 Laser Physics 1  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 9.00 am Mon, 12.00 noon Wed, Fri (TBC)                                |               |                  |   |
| This module presents a basic description of the main physical concepts upon which an understanding of laser materials, operations and applications can be based. The syllabus includes: basic concepts of energy-level manifolds in gain media, particularly in respect of population inversion and saturation effects; conditions for oscillator stability in laser resonator configurations and transverse and longitudinal cavity mode descriptions; single longitudinal mode operation for spectral purity and phase locking of longitudinal modes for the generation of periodic sequences of intense ultrashort pulses (i.e. laser modelocking); illustrations of line-narrowed and modelocked lasers and the origin and exploitability of intensity-induced nonlinear optical effects. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Physics   |               |                  |   |
| <b>Required for:</b>  | PH5016 (unless PH4035 is taken), PH5018 - also recommended for PH5005 |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures or tutorials.                       |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 90%, Coursework = 10%                    |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr F Koenig   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr F Koenig   |               |                  |   |

| PH4035 Principles of Optics   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon Mon, Wed, Fri (TBC)                     |               |                  |   |
| This module formulates the main aspects of physics used in modern optics, lasers and optoelectronic systems. Topics covered include: polarised light and its manipulation, with descriptions in terms of Jones' vectors and matrices; Fresnel's equations for transmittance and reflectance at plane dielectric interfaces; reflection and transmission of multi-layer thin films plus their use in interference filters; interpretation of diffraction patterns in terms of Fourier theory; spatial filters; the theory and use of Fabry-Perot etalons; laser cavities and Gaussian beams. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Physics                        |               |                  |   |
| <b>Required for:</b>  | PH5016 (unless PH4034 is taken)                    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures or tutorials.    |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework = 25% |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr F Koenig  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr F Koenig  |               |                  |   |

## Physics & Astronomy - Physics - MSc 2015/6 - November 2015

| PH4036 Physics of Music   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 12.00 noon Mon, Tue, Thu (TBC)                  |               |                  |   |
| Musical instruments function according to the laws of physics contained in the wave equation. Wind instruments, the human voice and the acoustics of concert halls can be explained largely by considering waves in the air, but understanding drums, percussion, string instruments and even the ear itself involves studying the coupling of waves in various media. The concepts of pitch, loudness and tone are all readily explained in quantitative terms as are the techniques that musicians and instrument makers use to control them. The analysis of musical instruments naturally culminates in a look at how musical sound may be synthesised. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Physics                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures or tutorials. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%               |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr J Kemp                                       |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Kemp                                       |               |                  |   |

| PH4037 Physics of Atoms   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 11.00 am Tue, Thu (TBC)                         |               |                  |   |
| This module provides a rational basis to the identification of atomic energy states and the various interactions of electrons within atoms. The syllabus includes: electron cloud model of an atom; electron spin and magnetic moment; spin-orbit interactions; one, two and many-electron systems; selection rules and line intensities for electric-dipole transitions; Lande g-factors; weak Zeeman and strong Paschen-Back magnetic field effects; hyperfine structure and Lamb shifts. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Physics                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures or tutorials. |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 100%               |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr N Korolkova                                  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr N Korolkova, Prof P Wahl, Dr G Bruce         |               |                  |   |

| PH4038 Lagrangian and Hamiltonian Dynamics  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 10 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 10.00 am odd Mon, Tue, Thu, 2.00 pm even Fri (TBC)        |               |                  |   |
| The module covers the foundations of classical mechanics as well as a number of applications in various areas. Starting from the principle of least action, the Lagrangian and Hamiltonian formulations of mechanics are introduced. The module explains the connection between symmetries and conservation laws and shows bridges between classical and quantum mechanics. Applications include the central force problem (orbits and scattering) and coupled oscillators. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Physics                               |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 or 3 lectures and some tutorials |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 75%, Coursework = 25%        |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B Braunecker   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr B Braunecker   |               |                  |   |

| PH4039 Solid State Physics   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 11.00 am Wed, Fri, 2.00 pm Fri (TBC)               |               |                  |   |
| This module is intended to show how the various thermal and electrical properties of solids are related to the nature and arrangement of the constituent atoms in a solid. For simplicity, emphasis is given to crystalline solids. The module examines: symmetry properties of crystals; common crystalline structures; the behaviour of waves in crystals; waves of atomic motion, leading to thermal properties; electronic energy states: conductors, insulators, semiconductors; electrical properties arising from the wave nature of electrons; examples of the fundamental theory applied to typical solids such as simple metals, silicon and other semiconductors, and magnetic materials. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc in Physics                        |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures or tutorials     |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 80%, Coursework = 20% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof S Lee   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof S Lee   |               |                  |   |

| PH4105 Physics Laboratory 2   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu (TBC) |               |                  |   |
| The aims of the module are (i) to familiarise students with a wide variety of experimental techniques and equipment, and (ii) to instil an appreciation of the significance of experiments and their results. The module consists of sub-modules on topics such as solid state physics, optics, interfacing, and signal processing. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for MSc in Physics                           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 x 3.5-hour laboratories.     |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%                                     |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Rae  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Rae and others                                   |               |                  |   |

| PH5002 Foundations of Quantum Mechanics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm Mon, Tue, Fri (TBC)                              |               |                  |   |
| This module consists of seven parts: (i) classical and quantum systems; (ii) vector spaces, Hilbert spaces, operators and probability; (iii) basic postulates of quantum mechanics for observables with discrete spectra; (iv) illustrative examples; (v) treatment of continuous observables in terms of probability distribution functions and the spectral functions; (vi) quantum theory of orbital and spin angular momenta, Pauli-Schrodinger equation and its applications; (vii) introduction to relativistic quantum mechanics. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for some Postgraduate programmes in the School. |               |                  |   |
| <b>Pre-requisite(s):</b>   | Relevant Quantum Mechanics                               |               |                  |   |
| <b>Required for:</b>   | Recommended, but not required, for PH5004                |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures or tutorials.          |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%                        |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr K Wan   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr K Wan   |               |                  |   |

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| PH5003 Group Theory  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 12.00 noon Wed, Fri, 3.00 pm Mon (TBC)              |               |                  |   |
| This module explores the concept of a group, including groups of coordinate transformations in three-dimensional Euclidean space; the invariance group of the Hamiltonian operator; the structure of groups: subgroups, classes, cosets, factor groups, isomorphisms and homomorphisms, direct product groups; introduction to Lie groups, including notions of connectedness, compactness, and invariant integration; representation theory of groups, including similarity transformations, unitary representations, irreducible representations, characters, direct product representations, and the Wigner-Eckart theorem; applications to quantum mechanics, including calculation of energy eigenvalues and selection rules. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate programmes in the School. |               |                  |   |
| <b>Pre-requisite(s):</b>   | Relevant undergraduate mathematics and physics.     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures or tutorials.     |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 100%                   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof J Cornwell                                     |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof J Cornwell                                     |               |                  |   |

| PH5004 Quantum Field Theory   |   |                         |  |   |
|---|---|-------------------------|--|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11           | <b>Semester:</b>   | 1 |
| <b>Planned timetable:</b>   | 2.00 pm Thu, 3.00 pm Tue, Fri (TBC)   |                         |  |   |
| This module presents an introductory account of the ideas of quantum field theory and of simple applications thereof, including quantization of classical field theories, second quantization of bosons and fermions, the failure of single particle interpretation of relativistic quantum mechanics, solving simple models using second quantization, Feynman's path integral approach to quantum mechanics and its relation to classical action principles, field integrals for bosons and fermions, the relationship between path integral methods and second quantization. |   |                         |  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate programmes in the School.   |                         |  |   |
| <b>Pre-requisite(s):</b>  | Relevant undergraduate mathematics and physics  | <b>Co-requisite(s):</b> | At least one of PH5002 and PH5012 is recommended but not compulsory. |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 lectures or tutorials.   |                         |  |   |
| <b>Assessment pattern:</b>  | Written Examinations = 90%, Practical Examinations = 0%, Coursework = 10%<br>2-hour Written Examination = 90%, Coursework = 10% |                         |  |   |
| <b>Module Co-ordinator:</b>   | Dr J Keeling  |                         |  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr J Keeling  |                         |  |   |



| PH5005 Laser Physics 2                             |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>                            | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>                  | Normally only taken in the final year of an MPhys or MSci programme involving the School   |               |                  |   |
| <b>Planned timetable:</b>                          | 10.00 am Mon, Tue, Wed, Thu (TBC)  |               |                  |   |
|  | Quantitative treatment of laser physics embracing both classical and semiclassical approaches; transient/dynamic behaviour of laser oscillators including relaxation oscillations, amplitude and phase modulation, frequency switching, Q-switching, cavity dumping and mode locking; design analysis of optically-pumped solid state lasers; laser amplifiers including continuous-wave, pulsed and regenerative amplification; dispersion and gain in a laser oscillator - role of the macroscopic polarisation; unstable optical resonators, geometric and diffraction treatments; quantum mechanical description of the gain medium; coherent processes including Rabi oscillations; semiclassical treatment of the laser; tunable lasers. |               |                  |   |
| <b>Programme module type:</b>                      | Optional for Postgraduate programmes in the School.  |               |                  |   |
| <b>Pre-requisite(s):</b>                           | Relevant mathematics and physics   |               |                  |   |
| <b>Anti-requisite(s):</b>                          | PH5018, PH5180   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b> | <b>Weekly contact:</b> 4 lectures or tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>                         | Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%<br>2.5-hour (open notes) Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>                        | Dr B Sinclair  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>                       | Prof M Dunn, Dr L O'Faolain, Dr B Sinclair   |               |                  |   |

| PH5011 General Relativity                          |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>                            | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>                  | Normally only taken in the final year of an MPhys or MSci programme involving the School  |               |                  |   |
| <b>Planned timetable:</b>                          | 9.00 am Wed, Fri, 3.00 pm Thu (TBC)   |               |                  |   |
|  | This module covers: inertial frames, gravity, principle of equivalence, curvature of spacetime; basic techniques of tensor analysis; Riemannian spaces, metric tensor, raising and lowering of indices, Christoffel symbols, locally flat coordinates, covariant derivatives, geodesics, curvature tensor, Ricci tensor, Einstein tensor; fundamental postulates of general relativity: spacetime, geodesics, field equations, laws of physics in curved spacetime; distances, time intervals, speeds; reduction of equations of general relativity to Newtonian gravitational equations; Schwarzschild exterior solution, planetary motion, bending of light rays, time delays; observational tests of general relativity; Schwarzschild interior solution, gravitational collapse, black holes. |               |                  |   |
| <b>Programme module type:</b>                      | Optional for Postgraduate programmes in the School.   |               |                  |   |
| <b>Pre-requisite(s):</b>                           | Relevant mathematics and physics  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b> | <b>Weekly contact:</b> 3 lectures or tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>                         | Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%<br>2-hour Written Examination = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>                        | Dr H Zhao   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>                       | Dr H Zhao   |               |                  |   |

## Physics & Astronomy - Physics - MSc 2015/6 - November 2015

| PH5012 Quantum Optics  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Normally only taken in the final year of an MPhys or MSci programme involving the School                       |               |                  |   |
| <b>Planned timetable:</b>  | 11.00 am Mon, (9.00 am Tue, Thu - weeks 1 - 6, 11.00 am Tue, Thu - weeks 7 - 12) (TBC)                         |               |                  |   |
| Quantum optics is the theory of light that unifies wave and particle optics. Quantum optics describes modern high-precision experiments that often probe the very fundamentals of quantum mechanics. The module introduces the quantisation of light, the concept of single light modes, the various quantum states of light and their description in phase space. The module considers the quantum effects of simple optical instruments and analyses two important fundamental experiments: quantum-state tomography and simultaneous measurements of position and momentum. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for a Postgraduate programme in the School.   |               |                  |   |
| <b>Pre-requisite(s):</b>   | Relevant quantum mechanics and mathematics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 lectures or tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%<br>2-hour Written Examination = 100% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr F Koenig  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr F Koenig, Dr N Korolkova  |               |                  |   |

| PH5014 The Interacting Electron Problem in Solids  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Normally only taken in the final year of an MPhys or MSci programme involving the School  |               |                  |   |
| <b>Planned timetable:</b>  | 4.00 pm Mon, Tue, Thu (TBC)   |               |                  |   |
| The aim of this module is to give an overview of developments in modern condensed matter physics. The difficulties of a full quantum mechanical treatment of electrons with strong interactions will be discussed. Common existing approaches such as the Hubbard and t-J models and Fermi liquid theory will be compared. It will be shown that, although microscopic models can explain aspects of magnetism, they have little chance of capturing many other features of the fascinating low-energy physics of these systems. Instead, we introduce the principle of emergence, and show how it suggests radically new approaches to the problem of complexity in condensed matter physics and beyond. In this module, formal lectures will be combined with reading assignments, and the assessment will be based on marked homework together with an oral presentation followed by questions. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate programmes in the School.   |               |                  |   |
| <b>Pre-requisite(s):</b>   | Relevant solid state physics, quantum mechanics and mathematics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures and some tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | Written Examinations = 0%, Practical Examinations = 50%, Coursework = 50%<br>Coursework = 50%, Presentation plus Oral Examination = 50% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Hooley   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Hooley   |               |                  |   |

| PH5015 Applications of Quantum Physics  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>   | Normally only taken in the final year of an MPhys or MSci programme involving the School   |               |                  |   |
| <b>Planned timetable:</b>   | 12.00 noon Mon, Tue, Thu (TBC)   |               |                  |   |
| Quantum physics is one of the most powerful theories in physics yet is at odds with our understanding of reality. In this module we show how laboratories around the world can prepare single atomic particles, ensembles of atoms, light and solid state systems in appropriate quantum states and observe their behaviour. The module includes studies of laser cooling, Bose-Einstein condensation, quantum dots and quantum computing. An emphasis throughout will be on how such quantum systems may actually turn into practical devices in the future. The module will include assessment based on tutorial work and a short presentation on a research topic. |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Postgraduate programmes in the School.  |               |                  |   |
| <b>Pre-requisite(s):</b>  | Relevant physics and mathematics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures (x 11 weeks) and a further 2 x 1-hour tutorials, 1 x 3-hour research lab visit, 3 hours student presentations during the semester. |               |                  |   |
| <b>Assessment pattern:</b>  | Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%<br>2-hour Written Examination = 80%, Coursework = 20%                                      |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof K Dholakia  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof K Dholakia, Dr M Mazilu   |               |                  |   |

| PH5016 Biophotonics  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Normally only taken in the final year of an MPhys or MSci programme involving the School  |               |                  |   |
| <b>Planned timetable:</b>  | 9.00 am Mon, Wed, Fri (TBC)   |               |                  |   |
| The module will expose students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, lab-on-a-chip concepts and bio-MEMS. Two thirds of the module will be taught as lectures, including guest lectures by specialists, with the remaining third consisting of problem-solving exercises, such as writing a specific news piece on a research paper, assessed tutorial sheets and a presentation. A visit to a biomedical research laboratory using various photonics methods will also be arranged. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Postgraduate programmes in the School<br>Optional for EngD Photonics Programme                                     |               |                  |   |
| <b>Pre-requisite(s):</b>   | Relevant physics and mathematics  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 lectures and some tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>   | Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%<br>2-hour Written Examination = 80%, Coursework = 20% |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C T A Brown  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C T A Brown, Prof M C Gather, Dr C Penedo  |               |                  |   |

## Physics & Astronomy - Physics - MSc 2015/6 - November 2015

| PH5023 Monte Carlo Radiation Transport Techniques   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 2.00 pm Mon, Tue, Fri (TBC)  |               |                  |   |
| <p>This module introduces the theory and practice behind Monte Carlo radiation transport codes for use in physics, astrophysics, atmospheric physics, and medical physics. Included in the module: recap of basic radiation transfer; techniques for sampling from probability distribution functions; a simple isotropic scattering code; computing the radiation field, pressure, temperature, and ionisation structure; programming skills required to write Monte Carlo codes; code speed-up techniques and parallel computing; three-dimensional codes. The module assessment will be 100% continuous assessment comprising homework questions and small projects where students will write their own and modify existing Monte Carlo codes.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Optional for Astronomy and Physics   |               |                  |   |
| <b>Pre-requisite(s):</b>  | Relevant physics, mathematics and computing  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3 hours of lectures (x 5 weeks), 1-hour tutorials (x 5 weeks)           |               |                  |   |
| <b>Assessment pattern:</b>  | Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%<br>Coursework = 100% |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr K Wood  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr K Wood  |               |                  |   |

| PH5177 Research Project (POED MSc)  |   |               |                  |        |
|---|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 60  | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Availability restrictions:</b>   | This project module is organised and assessed with Heriot Watt as the lead institution in 2015/6 and alternate years thereafter, St Andrews in 2016/17 and alternate years after that. It is available only to those in the Photonics and Optoelectronic Devices MSc programme. |               |                  |        |
| <b>Planned timetable:</b>   | Placement, full time.   |               |                  |        |
| <p>All POED MSc students carry out a ~3-month research project, in most cases carried out at a U.K. company. Part-time students who are industry employees may carry out the project at their own company. Students will have completed a literature survey prior to the project, and write a dissertation on the project which is assessed in September.</p> |   |               |                  |        |
| <b>Programme module type:</b>   | Compulsory for Photonics and Optoelectronic Devices MSc Programme.  |               |                  |        |
| <b>Pre-requisite(s):</b>  | Satisfactory completion of the taught element of Photonics and Optoelectronic Devices MSc programme .   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> About 40 hours a week working on the project, with appropriate levels of supervision   |               |                  |        |
| <b>Assessment pattern:</b>  | Dissertation and Oral Examination = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Dr B D Sinclair   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr B D Sinclair   |               |                  |        |

| PH5180 Laser Physics  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am Mon, Tue, Wed, Thu (TBC)   |               |                  |   |
| This module presents a description of the main physical concepts upon which an understanding of laser materials, operations, and applications can be based. These concepts include a treatment of light-matter interaction, gain, absorption and refractive index, rate-equation theory of lasers, gain and its saturation, frequency selection and tuning in lasers, transient phenomena, resonator and beam optics, and the principles and techniques of ultrashort pulse generation and measurement. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Photonics and Optoelectronic Devices Postgraduate Programmes.<br>Optional for EngD Programme |               |                  |   |
| <b>Pre-requisite(s):</b>  | Admission to a Taught Postgraduate programme within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 4 lectures/tutorials each week.  |               |                  |   |
| <b>Assessment pattern:</b>  | 2.5-hour open-notes Examination = 80%, Coursework = 20%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr B D Sinclair   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr B D Sinclair, Dr C T A Brown, Prof M H Dunn, Dr L O'Faholain   |               |                  |   |

| PH5181 Photonics Laboratory 1  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 2.00 pm - 5.30 pm Mon, Tue and Thu  |               |                  |   |
| The photonics teaching laboratory gives training in the experimental photonics, and allows students the opportunity to explore photonics practically in a series of chosen open-ended investigations. Students use their knowledge and skills from the lecture modules, supplemented by additional reading, to investigate relevant photonic effects. Phase I involves work in small groups in introductory areas, then phase II allows primarily individual investigation of topics such as the second harmonic generation, optical parametric oscillation, erbium amplifiers, Nd lasers, optical tweezers, spectroscopy, remote sensing of speed, Bragg reflectors, and holography. A formal lab report is included. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Photonics and Optoelectronic Devices MSc Programme and EngD Photonics Programme. |               |                  |   |
| <b>Pre-requisite(s):</b>   | Admission to a Taught Postgraduate programme within the School.                                 |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3 x 2.5-hour practicals.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr B D Sinclair   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr B D Sinclair and others  |               |                  |   |

| PH5182 Displays and Nonlinear Optics  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| <p>The physics of polymers and liquid crystals is covered, showing the way to the use of semi-conducting polymers as light emitters, and the use of liquid crystals in displays and spatial light modulators. The nonlinear optics section of this module describes the physical ideas and application of second and third order nonlinear optics, including phenomena such as harmonic generation, parametric gain, saturated absorption, nonlinear refraction, Raman scattering, and optical solitons. The final section looks at second order nonlinear effects being exploited in optical parametric amplifiers and oscillators in the optical and THz regions.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Photonics and Optoelectronic Devices MSc Programme.<br>Optional for EngD Photonics Programme |               |                  |   |
| <b>Pre-requisite(s):</b>  | Admission to a Taught Postgraduate programme within the School.   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures and occasional tutorials.   |               |                  |   |
| <b>Assessment pattern:</b>  | 2-hour Written Examination = 80%, Coursework = 20%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof I D W Samuel   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof I D W Samuel, Prof M H Dunn, Dr M Mazilu, Dr C F Rae   |               |                  |   |

| PH5183 Photonics Applications  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | This module is intended for students in the final year of an MPhys or MSci programme involving the School, for those in the MSc in Photonics and Optoelectronic Devices, and for those on the EngD degree in Photonics. |               |                  |   |
| <b>Planned timetable:</b>  | 9.00 am Mon, Wed, Fri, 11.00 am Wed, Fri, 12.00 noon Mon, Tue, Thu<br>Depending on options taken (TBC)  |               |                  |   |
| <p>Students on this module choose to do two of the following three sections:</p> <p><b>Microphotonics and Plasmonics:</b> This covers the Bragg effect, multilayer mirrors, defects causing confined cavity states, periodicity leading to bandstructure, scaling of bandstructure in reduced frequency, Bloch modes and photonic bandgap. It then considers photonic crystal waveguides, photonic crystal fibres, and supercontinuum generation in photonic crystal fibres. Plasmonics is based on oscillations of the free electrons in a metallic material. Resonances of Plasmons are the basis for a new class of materials called 'Metamaterials'. These are compared with photonic crystals. Applications include super-resolution imaging, optical cloaking, sensing, and surface enhanced Raman scattering.</p> <p><b>Biophotonics:</b> This will introduce students to the exciting opportunities offered by applying photonics methods and technology to biomedical sensing and detection. A rudimentary biological background will be provided where needed. Topics include fluorescence microscopy and assays including time-resolved applications, optical tweezers for cell sorting and DNA manipulation, photodynamic therapy, lab-on-a-chip concepts and bio-MEMS.</p> <p><b>Optical Trapping and Atom Optics:</b> Quantum physics is one of the most powerful theories in physics yet is at odds with our understanding of reality. In this course we show how laboratories around the world can prepare single atomic particles, ensembles of atoms, light and solid state systems in appropriate quantum states and observe their behaviour. The material includes optical cooling and trapping of atoms and ions, Fermi gases, studies of Bose-Einstein condensation, and matter-wave interferometry.</p> <p>Students must not cover Biophotonics in both this module and PH5016/PH5264, and must not cover Optical Trapping and Atom Optics in both this module and PH5015/PH5267.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Photonics and Optoelectronic Devices MSc Programme.<br>Optional for EngD Photonics Programme   |               |                  |   |
| <b>Pre-requisite(s):</b>   | PG - Relevant physics and mathematics   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> ~3 lectures and occasional tutorials.  |               |                  |   |
| <b>Assessment pattern:</b>   | 2-hour Written Examination = 80%, Coursework = 20%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Di Falco   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C T A Brown, Dr D Cassettari, Dr M Mazilu, Dr A Di Falco, Dr L O'Faolain, Dr C Penedo  |               |                  |   |

## School of Psychology & Neuroscience

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

#### Postgraduate Certificate:

**The Psychology of Dementia Care - by Distance Learning ([link](#))**

**Adult Support, Protection and Safeguarding**

**- by Distance Learning ([link](#))**

**Adults with Learning Difficulties who have Significant and**

**Complex Needs - by Distance Learning ([link](#))**

#### Postgraduate Diploma:

**Adults with Learning Difficulties who have Significant and**

**Complex Needs - by Distance Learning ([link](#))**

#### Master of Science - MSc:

**Adults with Learning Difficulties who have Significant and**

**Complex Needs - by Distance Learning ([link](#))**

**Evolutionary and Comparative Psychology:**

**The Origins of Mind ([link](#))**

**Psychology (Conversion) ([link](#))**

#### Master of Research - MRes:

**Psychology ([link](#))**

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*



## Adults with Learning Difficulties who have Significant and Complex Needs - by Distance Learning

### **Postgraduate Certificate:**

60 Postgraduate SCOTCAT Points from a choice of 4 from 6 postgraduate modules (CE5001 - CE5006) (15 Points per module)

### **Postgraduate Diploma:**

60 credits from PS5101 - PS5106

plus

Either 60 credits from PS5401 - PS5406,

or 60 credits from CE5001 - CE5006 or equivalent (10 Points per module)

### **MSc:**

60 credits from PS5101 - PS5106

plus

Either 60 credits from PS5401 - PS5406

or 60 credits from CE5001 - CE5006 or equivalent

plus 60 credits from Dissertation module PS5199

These modules are designed as training for staff working in learning/intellectual disability services, to update current knowledge and good practice, and to teach the specific skills necessary to undertake a career as a research practitioner in learning disability services.

**Co-requisite(s):** Postgraduate Certificate modules to be completed within 12 months. All six Postgraduate Diploma modules are to be completed within 12 months.

Assessment of Postgraduate MSc is by a 15,000-word Research Project and write up.

### **Modules**

A choice of 4 from 6 postgraduate modules (CE5001 - CE5006) or (PS5401 - PS5406) delivered by distance learning, comprises the core of the Postgraduate Certificate.

These modules (CE5001 - CE5006) may also be taken as single modules.

At Postgraduate Diploma level, a set of 6 modules (PS5101 - PS5016) are the basic research practitioner training.

**Postgraduate Certificate modules (CE5001 - CE5006)**

| CE5001 Distance Learning Programme: Challenging Behaviour   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Must be employed full or part-time in health, social or voluntary sector services to people with intellectual disabilities.  |               |                  |            |
| <b>Planned timetable:</b>   | 150 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module concerned with the additional needs of adults with intellectual disabilities. This module considers definitions of challenging behaviour and how such behaviour is conceptualised in modern theories. It looks at: Types of challenging behaviour, prevalence, causation and theoretical perspectives, person-environment interactions, neurobiological explanations of challenging behaviour, behavioural phenotypes and challenging behavior, approaches to intervention, cognitive-behaviour therapy, service design, organisational culture, specialisation in community settings, assessment and treatment units, support in integrated settings, support family carers, support in day opportunity settings. |  |               |                  |            |
| <b>Programme module type:</b>   | Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | A university degree or a professional qualification (/social work/nursing/professions allied to medicine) or at least three years experience in a management position in intellectual disability services.   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

| CE5002 Distance Learning Programme: Mental Health  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Must be employed full or part-time in health, social or voluntary sector services to people with intellectual disabilities.  |               |                  |            |
| <b>Planned timetable:</b>  | 150 notional hours of learning time (delivered by online distance learning)  |               |                  |            |
| The module investigates how mental health difficulties reveal themselves in people with intellectual disabilities and how they may be diagnosed. Also investigated, through evidence based practice: different types of mental health difficulties, a range of responses by front-line staff to such difficulties, methods of assessment and courses of treatment, residential and non-residential mental health services, and ethical and legal issues related to mental health difficulties. |  |               |                  |            |
| <b>Programme module type:</b>  | Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | A university degree or a professional qualification (social work/ nursing/ professions allied to medicine) or at least three years experience in a management position in intellectual disability services.  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials and accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework =100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

**Psychology & Neuroscience - Adults with Learning Disabilities PG - 2015/6 - November 2015**

| <b>CE5003 Distance Learning Programme: Offenders with Learning Disabilities</b>   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Must be employed full or part-time in health, social or voluntary sector services to people with intellectual disabilities.  |               |                  |            |
| <b>Planned timetable:</b>   | 150 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| The module investigates how services support people who have an intellectual disability and/or mental health condition and who have either been convicted of an offence indicating a risk to the public or have exhibited behaviour indicating pro-active management is required. It aims to improve students' ability to assess social and healthcare needs and management of forensic services in order to enhance quality of life and preserve individual rights as the person with intellectual disabilities. Case studies of individuals and of services are used to illustrate the complexity of this area of work, and to demonstrate best practice. |  |               |                  |            |
| <b>Programme module type:</b>   | Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | A university degree or a professional qualification (social work/ nursing/ professions allied to medicine) or at least three years experience in a management position in intellectual disability services.  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials and accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

| <b>CE5004 Distance Learning Programme: Profound and Multiple Disabilities</b>  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Must be employed full or part-time in health, social or voluntary sector services to people with intellectual disabilities.  |               |                  |            |
| <b>Planned timetable:</b>  | 150 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| The module aims to increase understanding of the complex social and health care needs of adults with profound and multiple intellectual disabilities. Students will investigate the requirements of good service provision for this group and provide examples of how community presence and participation can be achieved. The role of family carers in long term support is also researched. |  |               |                  |            |
| <b>Programme module type:</b>  | Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | A university degree or a professional qualification (social work/ nursing/ professions allied to medicine) or at least three years experience in a management position in intellectual disability services.  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials and accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

## Psychology & Neuroscience - Adults with Learning Disabilities PG - 2015/6 - November 2015

| CE5005 Distance Learning Programme: Vulnerability, Victimisation and Abuse  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Must be employed full or part-time in health, social or voluntary sector services to people with intellectual disabilities.  |               |                  |            |
| <b>Planned timetable:</b>   | 150 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| The module investigates the history of and settings for victimisation and abuse of vulnerable individuals, in the context of adult support and protection. Students are asked analyse their own service setting with respect to arrangements that minimise the possibility of victimisation and abuse and develop strategies to deal with suspected or identified incidents of abuse. A number of illustrative case studies are explored. There is also an investigation of the knowledge and skills needed to respond to the needs of those who have been abused in a constructive manner. |  |               |                  |            |
| <b>Programme module type:</b>   | Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | A university degree or a professional qualification (/social work/nursing/professions allied to medicine) or at least three years experience in a management position in intellectual disability services.   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials and accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

| CE5006 Distance Learning Programme: Older People with Learning Disabilities  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Must be employed full or part-time in health, social or voluntary sector services to people with intellectual disabilities.  |               |                  |            |
| <b>Planned timetable:</b>  | 150 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| The module investigates knowledge and skills needed to support people with intellectual disabilities as they get older and in their later years with respect to their social and health needs (including dementia) The course aims to improve the ability to assess social and healthcare needs and management of services in order to enhance quality of life and preserve individual rights as the person with intellectual disabilities gets older and to increase knowledge of the role and expectations of older family carers. |  |               |                  |            |
| <b>Programme module type:</b>  | Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | A university degree or a professional qualification (/social work/nursing/professions allied to medicine) or at least three years experience in a management position in intellectual disability services.   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials and accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

Postgraduate Diploma modules (PS5101 - PS5106)

| PS5101 Intellectual Disability Research  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| <p>This distance-learning module is one of six in the postgraduate Diploma programme Adults with Learning Disabilities who have Significant and Complex Needs. It introduces students to the core skills necessary for research in the field of Intellectual Disability, including the following:</p> <p>Unit 1: What kinds of questions can be addressed in ID research?</p> <p>Unit 2: The practitioner-research</p> <p>Unit 3: What are the principal paradigms through which questions may be addressed?</p> <p>Unit 4: Research, evaluation and audit</p> <p>Unit 5: Theories, concepts and operationalisation</p> <p>Unit 6: Ethical issues and ethical permission</p> <p>The module is appropriate for professionally qualified staff who wish to develop research skills with a view to improving their professional practice.</p> <p>The core text for this module is Robson, C. (2002) Real World Research: A resource for social scientists and practitioner-researchers: 3rd edition. Oxford: Wiley.</p> |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Diploma in Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | 60 credits from CE5001 - CE5006 or PS5401 - PS5406 or 60 credits from an equivalent Postgraduate Certificate in Learning Disabilities  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Teaching materials supplied for distance learning, supported by online materials and accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

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| PS5102 Data Collection and Sampling  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 100 notional hours of learning time (delivered by online distance learning).  |               |                  |            |
| <p>This distance-learning module is one of six in the postgraduate Diploma programme Adults with Learning Disabilities who have Significant and Complex Needs. It introduces students to the core skills necessary for research in the field of Intellectual Disability, including the following:</p> <p>Unit 1: Quantitative data: types of measurement; issues in sampling<br/>           Unit 2: Qualitative data: sources; issues in sampling<br/>           Unit 3: Surveys and Questionnaires<br/>           Unit 4: Interviews<br/>           Unit 5: Use of standardised assessment instruments<br/>           Unit 5: Observational methods<br/>           Unit 6: Experimental measurement</p> <p>The module is appropriate for professionally qualified staff who wish to develop research skills with a view to improving their professional practice.</p> <p>The core text for this module is Robson, C. (2002) Real World Research: A resource for social scientists and practitioner-researchers: 3rd edition. Oxford: Wiley.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Diploma in Adults with Learning Disabilities who have Significant and Complex Needs.  |               |                  |            |
| <b>Pre-requisite(s):</b>   | 60 credits from CE5001 - CE5006 or PS5401 - PS5406 or 60 credits from an equivalent Postgraduate Certificate in Learning Disabilities   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Teaching materials supplied for distance learning, supported by online materials and accessed by University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg  |               |                  |            |

| PS5103 Quantitative Data Analysis: Fixed Designs  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| <p>This distance-learning module is one of six in the postgraduate Diploma programme Adults with Learning Disabilities who have Significant and Complex Needs. It introduces students to the core skills necessary for research in the field of Intellectual Disability, including the following:</p> <p>Unit 1: General design issues<br/>                     Unit 2: Experimental design<br/>                     Unit 3: Quasi-experimental designs<br/>                     Unit 4: The analysis of quantitative data<br/>                     Unit 5: Analysis of single subject data<br/>                     Unit 6: Graphical presentation</p> <p>The module is appropriate for professionally qualified staff who wish to develop research skills with a view to improving their professional practice.</p> <p>The core text for this module is Robson, C. (2002) Real World Research: A resource for social scientists and practitioner-researchers: 3rd edition. Oxford: Wiley.</p> |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Postgraduate Diploma in Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | 60 credits from CE5001 - CE5006 or PS5401 - PS5406 or 60 credits from an equivalent Postgraduate Certificate in Learning Disabilities  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Teaching materials supplied for distance learning, supported by online materials and accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

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| PS5104 Qualitative Data Analysis: Flexible Designs  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| <p>This distance-learning module is one of six in the postgraduate Diploma programme Adults with Learning Disabilities who have Significant and Complex Needs. It introduces students to the core skills necessary for research in the field of Intellectual Disability, including the following:</p> <p>Unit 1: Background to qualitative research<br/>           Unit 2: Grounded theory studies<br/>           Unit 3: Case study methods<br/>           Unit 4: Ethnographic studies<br/>           Unit 5: Analysing qualitative data<br/>           Unit 6: What to avoid in reporting qualitative research</p> <p>The module is appropriate for professionally qualified staff who wish to develop research skills with a view to improving their professional practice.</p> <p>The core text for this module is Robson, C. (2002) Real World Research: A resource for social scientists and practitioner-researchers: 3rd edition. Oxford: Wiley.</p> |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Postgraduate Diploma in Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | 60 credits from CE5001 - CE5006 or PS5401 - PS5406 or 60 credits from an equivalent Postgraduate Certificate in Learning Disabilities  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Teaching materials supplied for distance learning, supported by online materials and accessed via University webistes (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |



| PS5105 Writing a Research Report   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| <p>This distance-learning module is one of six in the postgraduate Diploma programme Adults with Learning Disabilities who have Significant and Complex Needs. It introduces students to the core skills necessary for research in the field of Intellectual Disability, including the following:</p> <p>Unit 1: Reporting data from a quantitative study<br/>                     Unit 2: Reporting data from a qualitative study<br/>                     Unit 3: Types of report (empirical, review, case study etc)<br/>                     Unit 4: Organisation and content in reporting research<br/>                     Unit 5: Referencing<br/>                     Unit 6: Submitting papers for journal publication</p> <p>The module is appropriate for professionally qualified staff who wish to develop research skills with a view to improving their professional practice.</p> <p>The core text for this module will be Robson, C. (2002) Real World Research: A resource for social scientists and practitioner-researchers: 3rd edition. Oxford: Wiley.</p> |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Diploma in Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | 60 credits from CE5001 - CE5006 or PS5401 - PS5406 or 60 credits from an equivalent Postgraduate Certificate in Learning Disabilities  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Teaching materials supplied for distance learning, supported by online materials and accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

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| PS5106 Undertaking a Small Scale Study  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| <p>This distance-learning module is one of six in the postgraduate Diploma programme Adults with Learning Disabilities who have Significant and Complex Needs. It introduces students to the core skills necessary for research in the field of Intellectual Disability, including the following:</p> <p>Unit 1: Developing your idea<br/>           Unit 2: Undertaking a literature review<br/>           Unit 3: Writing a research proposal<br/>           Unit 4: The practitioner-researcher re-visited<br/>           Unit 5: Requirements for course assignment<br/>           Unit 6: Working through the model answer</p> <p>The module is appropriate for professionally qualified staff who wish to develop research skills with a view to improving their professional practice.</p> <p>The core text for this module is Robson, C. (2002) Real World Research: A resource for social scientists and practitioner-researchers: 3rd edition. Oxford: Wiley.</p> |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Postgraduate Diploma in Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | 60 credits from CE5001 - CE5006 or PS5401 - PS5406 or 60 credits from an equivalent Postgraduate Certificate in Learning Disabilities  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Teaching materials supplied for distance learning, supported by online materials and accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

Postgraduate Diploma modules (PS5401 - PS5406)

| PS5401 The Evidence on the Abuse of Adults   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems   |               |                  |            |
| <b>Planned timetable:</b>  | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module concerned with the historical evidence and prevalence of abuse of vulnerable adults. We consider definitions of abuse, the nature of harm and people most at risk from harm. The topics studied include sexual harm, physical harm, financial exploitation, neglect and self-neglect, emotional harm and discriminatory harm. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | University degree or a prof. qualification (social work / nursing / professions allied to medicine). Substantial relevant experience in a cognate discipline, together with at least three years practical management/supervision will be considered.                          |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

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| PS5402 The Ecological Model of Adult Protection   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems  |               |                  |            |
| <b>Planned timetable:</b>   | 100 notional hours of learning time (delivered by online distance learning).  |               |                  |            |
| This is a module concerned with an 'Ecological Model' of adult protection. We consider how characteristics of vulnerable adults, perpetrators, relationship and environmental factors must all be taken into account in service agency policies and regulatory frameworks. The topics studied include the individual at risk, settings, legislation and government policy, culture and philosophy and international influences. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.                        |               |                  |            |
| <b>Pre-requisite(s):</b>  | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management/ supervision will be considered. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Teaching materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone.  |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg  |               |                  |            |

| PS5403 The Individual at Risk and Significant Others   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems   |               |                  |            |
| <b>Planned timetable:</b>  | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module focusing on the individual at risk and significant others, in the context of adult protection. We look at how investigations of allegations of harm need to be conducted systematically, taking into account issues of capacity and consent, training, and dealing with the consequences of harm. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management/supervision will be considered                      |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

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| <b>PS5404 Protective Service Designs: The Setting and Service Agency</b>  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems   |               |                  |            |
| <b>Planned timetable:</b>   | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module focusing on protective service designs, in the context of adult protection. We look at the importance of service design, culture and policies in health, social services and the voluntary sector. The module analyses the impact of service design on the degree of risk of harm for adults with learning disabilities. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management/supervision will be considered                      |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websties (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

| <b>PS5405 Regulatory Frameworks and Adult Protection Procedures</b>  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems   |               |                  |            |
| <b>Planned timetable:</b>  | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module looking at the international, national and local context of adult protection frameworks. We look at how legislation and policy are translated into regulatory frameworks to protect and safeguard vulnerable adults. Human Rights and ethical issues are considered in a wider international perspective. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management/supervision will be considered.                     |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

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| PS5406 Adult Support, Protection and Safeguarding: Ecological Model Assignment  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems .   |               |                  |            |
| <b>Planned timetable:</b>   | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This module provides information and instruction for completion of the written module assignment; a service-based audit of adult protection. This assignment will be based on either (a) an adult protection case from the student's own professional practice, or (b) a detailed adult protection case study provided for the purpose. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management/supervision will be considered.                     |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

## Postgraduate Masters (MSc)

| PS5199 Dissertation for MSc Programme in Adults with Learning Disabilities who have Significant and Complex Needs   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be negotiated with supervisor, over a period of 12 months.  |               |                  |            |
| A member of the teaching staff in the School of Psychology, who will advise on the choice of subject and provide guidance during the work, will supervise this research project and dissertation. The completed dissertation of not more than 15,000 words must be submitted within 12 months of the starting date. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for MSc in Adults with Learning Disabilities who have Significant and Complex Needs.  |               |                  |            |
| <b>Pre-requisite(s):</b>  | 4 modules from CE5001 - CE5006 or all of PS5401 - PS5406 or 60 credits from an equivalent Postgraduate Certificate in Learning Disabilities plus PS5101 - PS5106 |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual Supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

## Adult Support, Protection and Safeguarding - by Distance Learning

### Postgraduate Certificate:

60 credits from PS5401 - PS5406

This programme of 6 modules is designed for staff working in supervisory or professional positions in services for older people and adults with learning disabilities or mental health problems. The focus of the programme is on how services can best support and protect adults at risk of harm, with reference to legislation, policy and practice.

**Co-requisite(s):** All 6 Postgraduate Certificate modules (PS5401 - PS5406) to be completed within 12 months.

### Modules

A set of postgraduate modules delivered by distance learning composes the core of the basic research practitioner training. Students who successfully complete this Postgraduate Certificate may progress to the Postgraduate Diploma in Adults with Learning Disabilities who have Significant and Complex Needs.

### Compulsory modules:

| PS5401 The Evidence on the Abuse of Adults   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems   |               |                  |            |
| <b>Planned timetable:</b>  | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module concerned with the historical evidence and prevalence of abuse of vulnerable adults. We consider definitions of abuse, the nature of harm and people most at risk from harm. The topics studied include sexual harm, physical harm, financial exploitation, neglect and self-neglect, emotional harm and discriminatory harm. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | University degree or a prof. qualification (social work / nursing / professions allied to medicine). Substantial relevant experience in a cognate discipline, together with at least three years practical management/supervision will be considered.                          |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

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| PS5402 The Ecological Model of Adult Protection   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems   |               |                  |            |
| <b>Planned timetable:</b>   | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module concerned with an 'Ecological Model' of adult protection. We consider how characteristics of vulnerable adults, perpetrators, relationship and environmental factors must all be taken into account in service agency policies and regulatory frameworks. The topics studied include the individual at risk, settings, legislation and government policy, culture and philosophy and international influences. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.                       |               |                  |            |
| <b>Pre-requisite(s):</b>  | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management/supervision will be considered. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Teaching materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |



**Psychology & Neuroscience - Adults Support PGCert - 2015/6 - November 2015**

| <b>PS5403 The Individual at Risk and Significant Others</b>  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems   |               |                  |            |
| <b>Planned timetable:</b>  | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module focusing on the individual at risk and significant others, in the context of adult protection. We look at how investigations of allegations of harm need to be conducted systematically, taking into account issues of capacity and consent, training, and dealing with the consequences of harm. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management/supervision will be considered                      |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

| <b>PS5404 Protective Service Designs: The Setting and Service Agency</b>  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems   |               |                  |            |
| <b>Planned timetable:</b>   | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module focusing on protective service designs, in the context of adult protection. We look at the importance of service design, culture and policies in health, social services and the voluntary sector. The module analyses the impact of service design on the degree of risk of harm for adults with learning disabilities. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management/supervision will be considered                      |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

## Psychology & Neuroscience - Adult Support PGCert - 2015/6 - November 2015

| PS5405 Regulatory Frameworks and Adult Protection Procedures   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>  | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems   |               |                  |            |
| <b>Planned timetable:</b>  | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This is a module looking at the international, national and local context of adult protection frameworks. We look at how legislation and policy are translated into regulatory frameworks to protect and safeguard vulnerable adults. Human Rights and ethical issues are considered in a wider international perspective. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>   | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management / supervision will be considered.                   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Campbell, Prof J Hogg   |               |                  |            |

**Psychology & Neuroscience - Adults Support PGCert - 2015/6 - November 2015**

| <b>PS5406 Adult Support, Protection and Safeguarding: Ecological Model Assignment</b>   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 10   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Availability restrictions:</b>   | Must be employed full or part-time in health, social or voluntary sector services to older people or adults with learning disabilities or mental health problems .   |               |                  |            |
| <b>Planned timetable:</b>   | 100 notional hours of learning time (delivered by online distance learning).   |               |                  |            |
| This module provides information and instruction for completion of the written module assignment; a service-based audit of adult protection. This assignment will be based on either (a) an adult protection case from the student's own professional practice, or (b) a detailed adult protection case study provided for the purpose. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for the Postgraduate Certificate programme: Adult Support, Protection and Safeguarding.<br>Optional for the Postgraduate Certificate programme: Adults with Learning Disabilities who have Significant and Complex Needs.   |               |                  |            |
| <b>Pre-requisite(s):</b>  | University degree or a prof. qualification (social work / nursing / professions allied to medicine). In some cases substantial relevant experience in a cognate discipline, with at least three years practical management/supervision will be considered.                     |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 introductory seminar - Online teaching and learning materials supplied for distance learning, supported by online materials accessed via University websites (Moodle), library electronic databases. University tutor support by email and telephone. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Campbell  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Campbell, Prof J Hogg   |               |                  |            |

## The Psychology of Dementia Care - by Distance Learning

These modules are designed as training for staff working with people with dementia. This Postgraduate Certificate programme addresses core themes in Dementia Care viewed from a psychological perspective. This programme will provide students with a theoretical background to the psychology of dementia care. Students will be encouraged to question current practice and to apply psychological theory to their own working situation. As such, practitioner students will attain a new theoretical understanding of dementia care.

**Postgraduate Certificate:**

60 credits from PS5500 - PS5502

**Co-requisite(s):** All three Postgraduate Certificate modules to be completed within 12 months.

### Compulsory modules:

| PS5500 The Psychosocial Impact of Dementia   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 200 notional hours of learning time. Delivered by distance learning.  |               |                  |   |
| This module provides an introduction to the psychosocial impact of dementia on individuals with a diagnosis and those who care for them. The module begins with an introduction to dementia. It addresses what dementia is and what it is not, different types and causes of the illness and patterns of progression in the brain. The module then addresses several different models of dementia – most notably the biomedical and psychosocial perspectives. The psychosocial impact of dementia on memory and communication will then be explored. This study of the combination of damage to the brain and the social context within which the illness exists will provide students with a context within which they can consider their own experiences of caring for individuals with dementia. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Certificate in Psychology of Dementia Care  |               |                  |   |
| <b>Pre-requisite(s):</b>   | University degree in a cognate discipline from a recognised HEI;<br>Or *Accredited Prior Learning (RPL through formal certifiable learning);<br>Or *Experiential Prior Learning (RPL gained through experience) |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 200 notional hours of learning time. Delivered by distance learning.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M Ellis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Ellis  |               |                  |   |

## Psychology & Neuroscience - Dementia Care PG Cert - 2015/6 - November 2015

| PS5501 The Care of Individuals with Dementia   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 200 notional hours of learning time. Delivered by distance learning.  |               |                  |   |
| <p>This module provides an introduction to several psychological models of dementia care, i.e. biomedical, person-centred, palliative and supportive. The student is encouraged to consider the care model that is in use in his/her own workplace and to reflect on the impact of this approach from the perspectives of people with dementia, family members, professional caregivers and management. The module then explores how one might meet the psychological needs of individuals with dementia and their caregivers from each perspective. Students will then go on to learn about the psychology of the self in dementia care in terms of those with a diagnosis and their caregivers. The self will be examined in terms of its manifestation, psychological threats to self and how the self can be maintained in both caregivers and people with dementia. Psychological perspectives on relationship-building with individuals with dementia will then be explored. Students will be encouraged to reflect on their own experiences of caring for individuals with dementia and of forming relationships with them.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Certificate in the Psychology of Dementia Care  |               |                  |   |
| <b>Pre-requisite(s):</b>   | University degree in a cognate discipline from a recognised HEI;<br>Or *Accredited Prior Learning (RPL through formal certifiable learning);<br>Or *Experiential Prior Learning (RPL gained through experience) |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 200 notional hours of learning time. Delivered by distance learning.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M Ellis  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Ellis  |               |                  |   |

| PS5502 Implementing Effective Care   |   |               |                  |        |
|--|---|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 20  | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | 200 notional hours of learning time. Delivered by distance learning.  |               |                  |        |
| <p>The module provides a theoretical and evidence-based background to assist students to implement effective dementia care. Students will begin by considering the application of psychological theory to dementia care in different environments, i.e. the home, day care, residential care and hospital care. This will then lead to an analysis of the needs of each individual (those with a diagnosis and carers) in care situations. Students will then examine how one might assess what effective care might look like and how one might approach its measurement. This part of the module will foster the beginnings of research skills that will stand the student in good stead for further postgraduate study. The final section of this module will ask students to consider how effective care can be maintained. This will involve the exploration of self-determination theory and models of work motivation. On completing this module, students will be equipped with evidence-based strategies that will allow them to plan, change, measure and maintain effective practice in their workplaces.</p> |   |               |                  |        |
| <b>Programme module type:</b>  | Compulsory for Postgraduate Certificate in the Psychology of Dementia Care  |               |                  |        |
| <b>Pre-requisite(s):</b>   | University degree in a cognate discipline from a recognised HEI;<br>Or *Accredited Prior Learning (RPL through formal certifiable learning);<br>Or *Experiential Prior Learning (RPL gained through experience) |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 200 notional hours of learning time. Delivered by distance learning.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr M Ellis  |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Ellis  |               |                  |        |

## Masters in Evolutionary and Comparative Psychology: The Origins of Mind

### MSc:

150 credits: PS5005, PS5010, PS5011, PS5012, PS5013

30 credits: PS4085, PS4086, PS5003, PS5021, PS5031, or other approved 4000 level modules.

### Compulsory modules Semester 1:

| PS5010 Principal Approaches to the Origins of Mind  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 10.00 am Seminars, 2.00 pm practicals/tutorials.                                 |               |                  |   |
| This module serves to introduce distinct ways of studying the origins of mind within a comparative Tinbergian framework, emphasising both functional and mechanistic accounts; why capacities exist, how they are implemented, how they evolved and how they develop. Lectures will cover general evolutionary theory and: (1) Comparative/Phylogenetic, (2) Developmental, (3) Mechanistic/causal, and (4) Functional/adaptive approaches. 'Hot' research topics will be presented using particulars of these frameworks and will exemplify the spectrum of methods possible to address the origins of mind. |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Evolutionary and Comparative Psychology: the Origins of Mind. |               |                  |   |
| <b>Co-requisite(s):</b>   | PS5005, PS5011, PS5012, PS5013   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Seminar and tutorial/practical each week.                 |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Hobaiter  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Hobaiter & Dr G Brown   |               |                  |   |

| PS5011 Empirical Approaches to the Evolution of Communication  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |        |
| This module will explore the evolution of human language and animal communication through the comparative study of communication and cognition in humans and a variety of non-human species. The module will include detailed analysis of multiple empirical approaches used in cutting-edge research in both field and laboratory. The module integrates evolutionary theory, behavioural ecology, ethology, linguistics and psychological theory to account for how and why humans and other species have evolved their unique communication skills. An important focus will be on empirical methods of testing various theories proposed for the evolution of communication and language. |  |               |                  |        |
| <b>Programme module type:</b>  | Compulsory for MSc Evolutionary and Comparative Psychology: the Origins of Mind. |               |                  |        |
| <b>Co-requisite(s):</b>  | PS5005, PS5010, PS5012, PS5013   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars, tutorials and practicals.                |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Prof K Zuberbühler   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof K Zuberbühler   |               |                  |        |

**Optional modules Semester 1:**

| PS4085 Evolution and Development of Social and Technical Intelligence  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Available only to undergraduate students in the second year of the Honours Programme. Also available to postgraduate students on MSc Evolutionary and Comparative Psychology: the Origins of Mind |               |                  |   |
| <b>Planned timetable:</b>  | 11.00 am - 1.00 pm Fri  |               |                  |   |
| The last two decades have witnessed a surge of research on social and technical intelligence, both in humans and an increasingly wide range of non-human animal species. This module surveys the principal discoveries, integrating field and captive studies, as well as both observational and experimental methodologies, to trace the evolution and development of aspects of social intelligence such as imitation and theory of mind, and technical intelligence, such as tool use and understanding of causality. Key aims include appreciating the range of methodologies that have been developed and how these can be used to trace the evolution and ontogeny of the underlying psychological mechanisms. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for MSc Evolutionary and Comparative Psychology: the Origins of Mind.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars plus office hour.  |               |                  |   |
| <b>Assessment pattern:</b>   | Take Home Written Examination = 75%, Coursework = 25%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr C Cross  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr C Cross  |               |                  |   |

**Compulsory modules Semester 2:**

| PS5005 Methods of Data Analysis in Psychology  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 12.00 noon Mon  |               |                  |   |
| This module aims to ensure that students are competent in the use of advanced data analysis in psychology. This includes advanced training in common statistics (including regression, analysis of variance and multivariate techniques) plus additional training in qualitative methods. Students will also study more complex topics such as statistical modeling. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Psychology                                     |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 11 x 3-hour workshops plus optional tutorials. |               |                  |   |
| <b>Assessment pattern:</b>   | 5 elements of Coursework = 100% (SUBJECT TO APPROVAL)                 |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Bowman   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Bowman and Dr N Tausch   |               |                  |   |

**Psychology & Neuroscience - Origins of Mind MSc - 2015/6 - November 2015**

| <b>PS5011 Empirical Approaches to the Evolution of Communication</b>  |  |               |                  |        |
|---|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>   | 15   | SCQF Level 11 | <b>Semester:</b> | 1 or 2 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |        |
| <p>This module will explore the evolution of human language and animal communication through the comparative study of communication and cognition in humans and a variety of non-human species. The module will include detailed analysis of multiple empirical approaches used in cutting-edge research in both field and laboratory. The module integrates evolutionary theory, behavioural ecology, ethology, linguistics and psychological theory to account for how and why humans and other species have evolved their unique communication skills. An important focus will be on empirical methods of testing various theories proposed for the evolution of communication and language.</p> |  |               |                  |        |
| <b>Programme module type:</b>   | Compulsory for MSc Evolutionary and Comparative Psychology: the Origins of Mind. |               |                  |        |
| <b>Co-requisite(s):</b>   | PS5005, PS5010, PS5012, PS5013   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminars, tutorials and practicals.                |               |                  |        |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>   | Prof K Zuberbühler   |               |                  |        |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof K Zuberbühler   |               |                  |        |

| <b>PS5012 Origins of Human Cognition</b>   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am seminars, 2.00 pm practicals/tutorials.                                  |               |                  |   |
| <p>This module focuses on the origins of human cognition from evolutionary and developmental perspectives. How do we come to parse the 'blooming buzzing confusion' of cues from our physical and social environments into meaningful representations that support functionally adaptive behaviour? In the physical world are objects, their properties and the causal underpinnings of their interactions. The social world contains agents, their actions, and their mental states. How does cognitive processing reveal cues and build representations about the causal structure of the physical and social world? This course examines how these features are perceived and processed by developing humans and other animals for adaptive behaviour, and investigates the evidence for the proximate mechanisms underlying the abilities seen. The module links together the evolution and development of different cognitive abilities with a focus on empirical comparative research.</p> |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Evolutionary and Comparative Psychology: the Origins of Mind. |               |                  |   |
| <b>Co-requisite(s):</b>  | PS5005, PS5010, PS5011, PS5013   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminars, 1.5- hour tutorials and practicals.      |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Seed  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Seed  |               |                  |   |



**Optional module Semester 2:**

| SS5102 Philosophy and Methodology of the Social Sciences   |                                       |               |                  |   |
|--|---------------------------------------|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15                                    | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Academic year:</b>  | 2015/6                                |               |                  |   |
| <b>Planned timetable:</b>  | 2.00 - 4.00 pm Wed                    |               |                  |   |
| This seminar based module will introduce you to the basic theoretical approaches in the social sciences, encourage you to make connections between the methodological and epistemological issues involved in conducting social scientific research, and inspire you to reflect critically your own experience. The module will cover modern philosophy's historical evolution, positivism, feminism, critical theory and post-structuralism among other topics. Assessment will involve a one short review and one longer essay. |                                       |               |                  |   |
| <b>Programme module type:</b>  | Optional for MRes in Psychology       |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                     |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Leahy                            |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr V Paipais and various others       |               |                  |   |

**Compulsory module Summer:**

| PS5013 Research Project  |  |               |                  |        |
|--|--|---------------|------------------|--------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Summer |
| <b>Planned timetable:</b>  | Not applicable.  |               |                  |        |
| This aim of this module is to acquire research skills within the domain of evolutionary psychology. Students will conduct and report a research project from an evolutionary perspective. Projects may comprise field and/or laboratory-based studies, the analysis (including meta-analysis) of extant data, or the critical review and evaluation of existing literature. Students will need to demonstrate substantive contribution to the project and that the work is original. The thesis can be in any area of evolutionary psychology agreed by the student's supervisor and course coordinator, and approved by ethical review. |  |               |                  |        |
| <b>Programme module type:</b>  | Compulsory for MSc Evolutionary and Comparative Psychology: the Origins of Mind. |               |                  |        |
| <b>Co-requisite(s):</b>  | PS5005, PS5010, PS5011, PS5012   |               |                  |        |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Not applicable.   |               |                  |        |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |        |
| <b>Module Co-ordinator:</b>  | Dr E Bowman  |               |                  |        |

Optional modules Whole Year:

| PS5003 Generic Research and Professional Skills in Psychology  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |            |
| This module introduces students to the various skills and issues that are of importance to academic psychologists irrespective of their particular area of research. Weekly seminars will cover the various topics, such as academic presentations (published writing, talks, posters), the use of technology in order to enhance communication, how to read research reports, how to gain ethical approval for research, and how to build an academic career. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for MRes in Psychology.                    |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 17 x 2-hour seminars.          |               |                  |            |
| <b>Assessment pattern:</b>   | 4 elements of Coursework = 100% (SUBJECT TO APPROVAL) |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr W Li   |               |                  |            |

| PS5021 Methodologies for Psychology and Neuroscience  |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.                                       |               |                  |            |
| The primary aim of this module would be that the student gains some practical, hands-on experience, albeit rather briefly, of a number of laboratory techniques and of research methodologies as are employed by the Principal Investigators in the School of Psychology and Neuroscience. Across the course the student would experience a wide variety of methods and research practices and thereby become more aware of the possibilities of an integrative approach. The course would entail one weekly session (approx. 5 hours per week) during which the student would spend a session in the laboratory of a PI (Principal Investigator). This module would cover the research design, data collection, data analysis and the publication style of each PI. The PI would demonstrate the methodology, data collection and data analysis relevant to that laboratory and to the field in which the PI works. This may include an introductory lecture or discussion of literature relevant to the PI's field and would be followed by observation of, and basic training in the specific techniques used by the PI in conducting that research. The student would be involved in any data collection that may take place during that session, be made aware of the way in which those data are analysed by that PI's group and then shown how those results are prepared for publication and other dissemination. |   |               |                  |            |
| <b>Programme module type:</b>   | Optional for MRes Psychology Programme.               |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 5 hours each week for 5 weeks. |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%                                     |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr K Spencer  |               |                  |            |

**Psychology & Neuroscience - Origins of Mind MSc - 2015/6 - November 2015**

| PS5031 Review  |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| <p>This supervised review will compare and contrast different theoretical and methodological approaches to a particular topic in the study of the mind. The aim of this module is to encourage students to gain a clear picture as to what is unique about an evolutionary approach to the study of the mind, how it differs from other psychological approaches, and to gain an appreciation of the strengths and weaknesses of such an approach. Suitable topics for review will be chosen by agreement with the student's supervisor and the Course Controller.</p> |  |               |                  |            |
| <b>Programme module type:</b>  | Optional for MSc Evolutionary and Comparative Psychology: the Origins of Mind. |               |                  |            |
| <b>Co-requisite(s):</b>  | PS5005, PS5010, PS5011, PS5012, PS5013   |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 4 tutorials across the semester.                        |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr E Bowman  |               |                  |            |

## Masters in Psychology (Conversion)

### MSc:

100 credits: SS5104, PS5005, PS5240, PS5231- PS5234

10 credits: PS5235 - PS5236

10 credits: PS5237 - PS5238 and

60 credits: PS5002

### Compulsory modules Semester 1:

| SS5104 Quantitative Research in Social Science   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 1.00 - 4.00 pm Mon  |               |                  |   |
| This module provides a user-friendly introduction to the fundamental concepts of quantitative analysis. It will cover underlying principles, terminology, research design, sampling strategies, uncertainty and missing data, computerised data management and analysis and univariate and multivariate approaches to data analysis. The assessment will be in the form of weekly practical tasks completed in class and/or independently. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Psychology (Conversion).                           |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour combined lecture and practical session. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Leahy  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr P L Gardner  |               |                  |   |

| PS5231 Conceptual Issues and Theoretical Perspectives   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (first half of semester)   |               |                  |   |
| This module addresses the historical and philosophical background to current debates in psychology. The module will be taught via lectures and seminars including student presentations. Emphasis will be placed on the development of critical analysis of alternative models and levels of explanations of behaviour, and the ability to relate conceptual debates in psychology to issues in the real world. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Psychology (Conversion)  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x practical/workshop class of up to 3 hours. Additionally 5 x 1-hour tutorials across the semester. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Mr P L Gardner  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Mr P L Gardner  |               |                  |   |

**Optional modules Semester 1:**

| PS5235 Cognitive and Behavioural Neuroscience  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (first half of semester)   |               |                  |   |
| This module aims to provide an understanding of psychological knowledge in several inter-related domains concerned with the biological bases of behaviour. Emphasis will be laid on basic experimental science from analysis of molecular and synaptic events, single cell studies, brain activity scans, and clinical studies, and the relationship between cognitive, emotional, behavioural, neurological and physiological processes will be examined. |   |               |                  |   |
| <b>Programme module type:</b>  | Either PS5235 or PS5236 is compulsory for MSc Psychology (Conversion)   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x practical/workshop class of up to 3 hours. Additionally 5 x 1-hour tutorials across the semester. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr I Jentsch  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr I Jentsch  |               |                  |   |

| PS5237 Perception  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (second half of semester)  |               |                  |   |
| The aim of this module is to develop an understanding of visual perception and its functions. Stress will be laid on the integration of findings from physiology, neuropsychology, anatomy, and psychophysics. Topic areas covered will include theories of human vision and their application to understanding our ability to perceive distinct visual properties, for example the shape, size, location and identity of objects. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory, with particular focus on awareness of the latest issues in the discipline. |   |               |                  |   |
| <b>Programme module type:</b>  | Either PS5237 or PS5238 is compulsory for MSc Psychology (Conversion)   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x practical/workshop class of up to 3 hours. Additionally 5 x 1-hour tutorials across the semester. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr J Harris   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr J Harris   |               |                  |   |

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| PS5238 Cognition   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (second half of semester)  |               |                  |   |
| <p>The aim of this module is to develop an understanding of human memory and attention. Topic areas covered will include theories of attention, short and long-term memory, processes involved in memory encoding, maintenance and retrieval. Emphasis will be placed on the development of the skill of critical evaluation of evidence and theory. Lectures will be accompanied by practical classes, in which students will gain experience of the experimental methods used in cognitive research, and seminars in which research papers will be critically evaluated.</p> |   |               |                  |   |
| <b>Programme module type:</b>  | Either PS5237 or PS5238 is compulsory for MSc Psychology (Conversion)   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x practical/workshop class of up to 3 hours. Additionally 5 x 1-hour tutorials across the semester. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr T Otto   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr T Otto   |               |                  |   |

### Compulsory modules Semester 2:

| PS5005 Methods of Data Analysis in Psychology   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon Mon   |               |                  |   |
| <p>This module aims to ensure that students are competent in the use of advanced data analysis in psychology. This includes advanced training in common statistics (including regression, analysis of variance and multivariate techniques) plus additional training in qualitative methods. Students will also study more complex topics such as statistical modeling.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Evolutionary and Comparative Psychology: the Origins of Mind, MSc Psychology (Conversion), MSc in Health Psychology, MRes in Psychology |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 11 x 3-hour workshops plus optional tutorials   |               |                  |   |
| <b>Assessment pattern:</b>  | 5 elements of Coursework = 100% (SUBJECT TO APPROVAL)  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr E Bowman  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr E Bowman and Dr N Tausch  |               |                  |   |

## Psychology & Neuroscience - Psychology (Conversion) MSc - 2015/6 - November 2015

| PS5232 Assessment in Clinical Psychology   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (second half of semester).   |               |                  |   |
| This module presents psychopathological conditions and provides a basic understanding of the underlying neuronal and/or cognitive-behavioural mechanisms. Examples will be drawn from the field of clinical psychology and/or clinical neuropsychology. The module will further explore in detail the tools and procedures used to assess psychopathological conditions by discussing their theoretical/statistical background and by demonstrating how to use these tools in clinical and experimental settings. In addition, the use of these tools will be trained in small group settings. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Psychology (Conversion)  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x practical/workshop class of up to 3 hours. Additionally 5 hours of tutorials across the semester. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D Balslev  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr D Balslev  |               |                  |   |

| PS5233 Developmental Psychology  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 10  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (first half of semester)   |               |                  |   |
| This module is designed to equip students with an appreciation of key principles, concepts, methods and discoveries in developmental psychology, with an emphasis on evolutionary and Comparative perspectives that are a particular strength of such work in St Andrews. The module aims to offer a broad perspective spanning infancy to childhood, and a range of key topics in cognitive and social development. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MSc Psychology (Conversion)  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x practical/workshop class of up to 3 hours. Additionally 5 x 1-hour tutorials across the semester. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Gerson   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr S Gerson   |               |                  |   |

| PS5234 Social Psychology  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (first half of semester)   |               |                  |   |
| This module explores in depth key topics across the breadth of social psychological enquiry. A variety of research approaches will be examined in order to develop the scientific understanding and critical skills in this field. Approaches that will be covered include social cognition, social identity and the study of intergroup relations. In each case, the strengths and limitations of the approaches are explored, and theoretical knowledge will be linked to current events. |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Psychology (Conversion)  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x practical/workshop class of up to 3 hours. Additionally 5 x 1-hour tutorials across the semester. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr N Tausch   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr N Tausch   |               |                  |   |

**Optional module Semester 2:**

| PS5236 Evolutionary and Comparative Psychology  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 10  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (second half of semester)  |               |                  |   |
| This module will address evolutionary and comparative approaches to psychology. The aim is to provide an understanding of major evolutionary forces and how they have shaped animal and human behaviour and psychology. Key principles, concepts and methodologies will be introduced and related to specific topic areas such as the evolution of social behaviour and the evolutionary origins of language and cognition. |   |               |                  |   |
| <b>Programme module type:</b>   | Either PS5235 or PS5236 is compulsory for MSc Psychology (Conversion)   |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 x 2-hour lecture and 1 x practical/workshop class of up to 3 hours. Additionally 5 x 1-hour tutorials across the semester. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr C Hobaiter   |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr C Hobaiter   |               |                  |   |

**Compulsory modules Whole Year:**

| PS5240 Review   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.                                   |               |                  |            |
| This review will critically analyse and review complex current material in one particular topic in the study of the mind. Students will be required to attend the School Seminar series and to elect the work presented by one of the speakers as the basis for this essay. As part of the essay they should read relevant publications both by the speaker and by others in the relevant field. Students should consider both the theoretical significance and the real-world relevance of the work. |   |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for MSc Psychology (Conversion)        |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> To be arranged with tutor. |               |                  |            |
| <b>Assessment pattern:</b>  | Review = 100%                                     |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr R Sprengelmeyer and Dr B Dritschel             |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  |   |               |                  |            |



**Psychology & Neuroscience - Psychology (Conversion) MSc - 2015/6 - November 2015**

| <b>PS5002 Research Project</b>  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged with the supervisor.  |               |                  |            |
| <p>The student will carry out a major piece of original and independent research under the guidance of an academic supervisor. Under normal circumstances the research will be planned during the academic semesters and then conducted during the summer after successful completion of the other MRes modules. Supervision will be regular and will normally average approximately one hour every two weeks. The aim of the module is to give the student an opportunity to develop expertise in designing, conducting and analysing psychological research, and also to learn how to present such work in writing.</p> |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for MRes in Psychology and for the MSc Psychology (Conversion).     |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Personal tutorials at approximately 2-weekly intervals. |               |                  |            |
| <b>Assessment pattern:</b>  | 15,000 word (maximum) research report = 100%                                   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr E Bowman  |               |                  |            |

## Masters in Psychology MRes

### MRes:

90 credits: PS5003, PS5005, SS5103 and SS5104

30 credits: from SS5101, SS5102 or PS5021 or PS4091

60 credits: Dissertation module PS5002

### Compulsory modules Semester 1:

| SS5104 Quantitative Research in Social Science   |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 1.00 - 4.00 pm Mon  |               |                  |   |
| This module provides a user-friendly introduction to the fundamental concepts of quantitative analysis. It will cover underlying principles, terminology, research design, sampling strategies, uncertainty and missing data, computerised data management and analysis and univariate and multivariate approaches to data analysis. The assessment will be in the form of weekly practical tasks completed in class and/or independently. |   |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Psychology.                                    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 3-hour combined lecture and practical session. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Leahy  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Mr P L Gardner  |               |                  |   |

### Optional modules Semester 1:

| SS5101 Being a Social Scientist  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15                                     | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | 3.00 - 5.00 pm Fri                     |               |                  |   |
| Through a series of interactive seminars this two-part module explores the fundamental skills required by all social scientists. In part one, the module will focus on how to design and produce a research dissertation. Assessment will be in the form of a critical essay that analyses the research design of papers from your disciplinary field. In part two, issues of professional development (e.g. ethics, careers, grant writing) will be addressed. Assessment will be in the form of a class test in which you will review and comment on two research proposals. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for MRes in Psychology.       |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar. |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                      |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Leahy                             |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Kesby and Prof R Gray             |               |                  |   |

## Psychology & Neuroscience - Psychology MRes - 2015/6 - November 2015

| PS4091 Computer-aided Research   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 10 | <b>Semester:</b> | 1 |
| <b>Availability restrictions:</b>  | Available only to students in the second year of the Honours Programme, or the M.Res. in Psychology. |               |                  |   |
| <b>Planned timetable:</b>  | 9.00 am - 11.00 am Tue   |               |                  |   |
| As research becomes ever more computationally intense, the ability to use modern research software is becoming indispensable. This practical module will offer an introduction to computational modelling and provide you with the skills necessary to apply it in your research. Emphasis will be put on using scientific scripting languages in a research context. This module will build on the statistical techniques learned in previous modules and introduce modelling techniques, and imaging, stimulus presentation, and data visualisation. |  |               |                  |   |
| <b>Programme module type:</b>  | Optional for Psychology MRes Taught Postgraduate Programme.  |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture and 1 seminar plus office hour.                                     |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr D W Hunter  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr D W Hunter  |               |                  |   |

## Compulsory modules Semester 2:

| PS5005 Methods of Data Analysis in Psychology  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 12.00 noon Mon   |               |                  |   |
| This module aims to ensure that students are competent in the use of advanced data analysis in psychology. This includes advanced training in common statistics (including regression, analysis of variance and multivariate techniques) plus additional training in qualitative methods. Students will also study more complex topics such as statistical modeling. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Psychology                                    |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 11 x 3-hour workshops and optional tutorials. |               |                  |   |
| <b>Assessment pattern:</b>   | 5 elements of Coursework = 100% (SUBJECT TO APPROVAL)                |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr E Bowman  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr E Bowman and Dr N Tausch  |               |                  |   |

| SS5103 Qualitative Methods in Social Research  |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 9.00 am - 11.00 am Fri (provisional)       |               |                  |   |
| This seminar-based module offers both a theoretical and practical introduction to the collection, analysis and writing of qualitative social science research. Among other things, the module will cover positionality/ethics, archives, participant observation, participatory approaches, semi-structured interviewing and the use of NVIVO/computer aided qualitative data analysis. Assessment will involve a short reflection on field experience and a longer critical essay on a chosen aspect of qualitative research. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for various MRes in Psychology. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar.     |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                          |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Leahy                                 |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Kesby and various others              |               |                  |   |

### Optional module Semester 2:

| SS5102 Philosophy and Methodology of the Social Sciences   |                                       |               |                  |   |
|--|---------------------------------------|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 15                                    | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 2.00 - 4.00 pm Wed                    |               |                  |   |
| This seminar based module will introduce you to the basic theoretical approaches in the social sciences, encourage you to make connections between the methodological and epistemological issues involved in conducting social scientific research, and inspire you to reflect critically your own experience. The module will cover modern philosophy's historical evolution, positivism, feminism, critical theory and post-structuralism among other topics. Assessment will involve a one short review and one longer essay. |                                       |               |                  |   |
| <b>Programme module type:</b>  | Optional for MRes in Psychology       |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2-hour seminar |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%                     |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr S Leahy                            |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr V Paipais and various others       |               |                  |   |

**Compulsory modules Whole Year:**

| <b>PS5003 Generic Research and Professional Skills in Psychology</b>   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |            |
| This module introduces students to the various skills and issues that are of importance to academic psychologists irrespective of their particular area of research. Weekly seminars will cover the various topics, such as academic presentations (published writing, talks, posters), the use of technology in order to enhance communication, how to read research reports, how to gain ethical approval for research, and how to build an academic career. |   |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for MRes in Psychology.                    |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 17 x 2-hour seminars.          |               |                  |            |
| <b>Assessment pattern:</b>   | 4 elements of Coursework = 100% (SUBJECT TO APPROVAL) |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr W Li   |               |                  |            |

| <b>PS5002 Research Project</b>   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged with the supervisor.  |               |                  |            |
| The student will carry out a major piece of original and independent research under the guidance of an academic supervisor. Under normal circumstances the research will be planned during the academic semesters and then conducted during the summer after successful completion of the other MRes modules. Supervision will be regular and will normally average approximately one hour every two weeks. The aim of the module is to give the student an opportunity to develop expertise in designing, conducting and analysing psychological research, and also to learn how to present such work in writing. |  |               |                  |            |
| <b>Programme module type:</b>  | Compulsory for MRes in Psychology  |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Personal tutorials at approximately 2-weekly intervals. |               |                  |            |
| <b>Assessment pattern:</b>   | 15,000 word (maximum) research report  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr E Bowman  |               |                  |            |

Optional module Whole Year:

| PS5021 Methodologies for Psychology and Neuroscience   |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 15  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.                                       |               |                  |            |
| <p>The primary aim of this module would be that the student gains some practical, hands-on experience, albeit rather briefly, of a number of laboratory techniques and of research methodologies as are employed by the Principal Investigators in the School of Psychology and Neuroscience. Across the course the student would experience a wide variety of methods and research practices and thereby become more aware of the possibilities of an integrative approach. The course would entail one weekly session (approx. 5 hours per week) during which the student would spend a session in the laboratory of a PI (Principal Investigator). This module would cover the research design, data collection, data analysis and the publication style of each PI. The PI would demonstrate the methodology, data collection and data analysis relevant to that laboratory and to the field in which the PI works. This may include an introductory lecture or discussion of literature relevant to the PI's field and would be followed by observation of, and basic training in the specific techniques used by the PI in conducting that research. The student would be involved in any data collection that may take place during that session, be made aware of the way in which those data are analysed by that PI's group and then shown how those results are prepared for publication and other dissemination.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | Optional for MRes Psychology Programme.               |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 5 hours each week for 5 weeks. |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%                                     |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr K Spencer  |               |                  |            |

## Department of Social Anthropology

### Taught Programmes

*[Click on title to jump to detailed pdf of that programme](#)*

**Masters in Research - MRes or**

**Master of Philosophy - MPhil:**

**Anthropology, Art and Perception ([link](#))**

**Social Anthropology ([link](#))**

**Social Anthropology and Amerindian Studies ([link](#))**

**Social Anthropology with Pacific Studies ([link](#))**

*For all Masters degrees there are exit awards available that allow suitably-qualified candidates to receive a Postgraduate Certificate or Postgraduate Diploma.*

## Masters in Research In Anthropology, Art and Perception

### Programme Requirements

#### MRes:

120 credits: SA5010, SA5011, SA5020, SA5021

60 credits: SA5099 or SA5022

Students may substitute up to 30 credits from 3000- or 4000-level SA modules, with the approval of the Course Coordinator.

#### MPhil:

As for MRes plus a thesis of not more than 40,000 words (in place of SA5099).

### Compulsory modules - Semester 1:

| SA5011 The Anthropology of Connections: Interdisciplinarity as Methodology   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |   |
| This module builds on SA5010 by examining the relevance of other disciplines for Social Anthropology. Through lectures and seminars, students are shown how Anthropology can be extended and illuminated by working with methodologies and concepts drawn from History, Social Science, Philosophy, Language and the Arts. It shows how anthropologists must invoke other specialist disciplines during their work. It invites students to think of societies and anthropological theories as informed by internal and external constraints, dialogues and reinterpretations, which unfold in time. It will show the role of anthropology in articulating different disciplines. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Anthropology, Arts and Perception, MRes in Social Anthropology with Pacific Studies and MRes in Social Anthropology and Amerindian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr M High  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M High  |               |                  |   |

| SA5020 Anthropology, Art and Perception 1   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| This module centres on the role of perception in visual and material culture. It covers haptic, visual, sonic and gustatory themes in anthropology, including learning, apprenticeship, craft, community and cooperation, observation, the use of drawing and photography as research tools, design anthropology and aesthetics. It explores commonalities between anthropological fieldwork and contemporary arts practice. It specifically addresses the relationship between anthropology, psychology and aesthetics; and the observer and the practitioner. The taught course is complemented by practical sessions; visiting speakers; films; and by case studies reflecting departmental research concerns with both Scottish anthropology and the interconnectedness of global art practices . |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MRes in Anthropology, Art and Perception Postgraduate Programme.              |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures per week and occasional practicals and film/video viewing. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Bunn  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Bunn  |               |                  |   |



Compulsory modules - Semester 2:

| SA5010 Research Methods in Social Anthropology  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Wed   |               |                  |   |
| <p>This module aims to examine the methodology of anthropological research through close attention to the relationship between method and fieldwork experience. In particular, students are led into readings of fieldwork diaries, journals and letters, and invited to consider the experience of fieldwork and anthropological research in the round [i.e. not just as methodology for data collection]. A core focus is on what else about fieldwork experience and anthropological research practice we can learn from looking at diaries and letters rather than just at published ethnographic monographs.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MRes in Anthropology, Arts and Perception, MRes in Social Anthropology with Pacific Studies and MRes in Social Anthropology and Amerindian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Reed  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Reed  |               |                  |   |

| SA5021 Anthropology, Art and Perception 2   |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 12.00 noon Thu   |               |                  |   |
| <p>This module continues the programme's sensory exploration across the anthropology of art and material culture, especially focusing on the visual, the local and global. It draws on the meeting points between film and science, and art, heritage and museum ethnography to develop new ways of thinking anthropologically about visual and material culture.</p> <p>Themes include: a use of photography and archival imagery as research sources and tools; film as art and science; diasporic aesthetics; the use of new media tools such as U-Tube and Podcasts in research; and perceiving the past through material culture.</p> <p>The teaching is complemented by practical sessions; visiting speakers; museum and other field trips; films; and by case studies reflecting departmental research concerns with both Scottish anthropology and the interconnectedness of global art practices.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for Anthropology, Art and Perception Postgraduate Programme.                      |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 lectures per week and occasional practicals and film/video viewing. |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Bunn  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr S Bunn  |               |                  |   |

Compulsory module - Whole Year - One of:

| SA5022 Art and Perception 3: Dissertation with Practical Element  |  |                           |                  |            |
|---|--|---------------------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11             | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.   |                           |                  |            |
| <p>The dissertation-with-practical includes one 10 minute (max) sensory piece (film, DVD, sound recording, visual slide show, display etc) which can be made on simple and easily available equipment and software. This will be complemented by a reflective essay of 7500 words. The subject matter will be of anthropological relevance, selected in conjunction with the student's supervisor and other staff on the programme. Both subject and format of the piece will link to teaching in SA 5020 and SA 5021. They will draw on skills learned in the MRes throughout the year and be expected to show awareness of key issues in visual representation and observation. The project may include a short period of time, 3 weeks, in the field, to be agreed by staff and student. This will be supervised by a member of teaching staff who will advise on the subject choice and provide guidance throughout the research process.</p> |  |                           |                  |            |
| <b>Programme module type:</b>   | Either SA5022 or SA5099 is compulsory for Anthropology, Art and Perception Postgraduate Programme. |                           |                  |            |
| <b>Pre-requisite(s):</b>  | SA5010, SA5011, SA5020, SA5021   | <b>Anti-requisite(s):</b> | SA5099           |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Fieldwork   |                           |                  |            |
| <b>Assessment pattern:</b>  | Sensory Project = 50%, 7,500-word Reflective Essay = 50%   |                           |                  |            |
| <b>Module Co-ordinator:</b>   | Dr S Bunn  |                           |                  |            |

| SA5099 Dissertation  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.  |               |                  |            |
| <p>Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | <p>Compulsory for Anthropology, Social Anthropology Social Anthropology and Amerindian Studies, and Social Anthropology with Pacific Studies Postgraduate Programmes.</p> <p>Either SA5022 or SA5099 is compulsory for Anthropology, Art and Perception Postgraduate Programme.</p> |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr A Reed   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Reed   |               |                  |            |

## Masters in Research In Social Anthropology

### Programme Requirements

#### MRes:

60 credits: SA5010, SA5011

60 credits: SA5521, SS5101 - SS5104, or other SA 5000-level modules as available.

Students may substitute up to 30 credits from 3000- or 4000-level SA modules, with the approval of the Course Coordinator.

60 credits: SA5099

#### MPhil:

As for MRes plus a thesis of not more than 40,000 words (in place of SA5099).

### Compulsory module - Semester 1:

| SA5011 The Anthropology of Connections: Interdisciplinarity as Methodology  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module builds on SA5010 by examining the relevance of other disciplines for Social Anthropology. Through lectures and seminars, students are shown how Anthropology can be extended and illuminated by working with methodologies and concepts drawn from History, Social Science, Philosophy, Language and the Arts. It shows how anthropologists must invoke other specialist disciplines during their work. It invites students to think of societies and anthropological theories as informed by internal and external constraints, dialogues and reinterpretations, which unfold in time. It will show the role of anthropology in articulating different disciplines.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MRes in Anthropology, Arts and Perception, MRes in Social Anthropology with Pacific Studies and MRes in Social Anthropology and Amerindian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M High  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M High  |               |                  |   |

**Compulsory module - Semester 2:**

| SA5010 Research Methods in Social Anthropology  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 11.00 am Wed   |               |                  |   |
| <p>This module aims to examine the methodology of anthropological research through close attention to the relationship between method and fieldwork experience. In particular, students are led into readings of fieldwork diaries, journals and letters, and invited to consider the experience of fieldwork and anthropological research in the round [i.e. not just as methodology for data collection]. A core focus is on what else about fieldwork experience and anthropological research practice we can learn from looking at diaries and letters rather than just at published ethnographic monographs.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MRes in Anthropology, Arts and Perception, MRes in Social Anthropology with Pacific Studies and MRes in Social Anthropology and Amerindian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr A Reed  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Reed  |               |                  |   |

**Compulsory module - Whole Year:**

| SA5099 Dissertation  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 60  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | At times to be arranged with the supervisor.  |               |                  |            |
| <p>Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August.</p> |   |               |                  |            |
| <b>Programme module type:</b>  | <p>Compulsory for Anthropology, Social Anthropology Social Anthropology and Amerindian Studies, and Social Anthropology with Pacific Studies Postgraduate Programmes.</p> <p>Either SA5022 or SA5099 is compulsory for Anthropology, Art and Perception Postgraduate Programme.</p> |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> Individual supervision.  |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework (Dissertation) = 100%  |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr A Reed   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Reed   |               |                  |            |

Optional modules:

| SA5001 Theory and Method in Social Anthropology  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| The module will cover classical social theory and key concepts in social thought. It will review the basic assumptions and methodological implications of a variety of theoretical perspectives (ranging from structural-functionalism to postmodernism), and will examine in detail the logic of different modes of explanation. The paradigmatic positions of key social thinkers will also be considered. |   |               |                  |            |
| <b>Programme module type:</b>  | Optional for Social Anthropology Postgraduate Programme.          |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours (seminar, lectures, or tutorials). |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |

| SA5002 Current Issues in Social Anthropology  |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |            |
| The module focuses on recent developments within the discipline, and aims to challenge the student's existing presumptions and preoccupations. It will cover both theoretical and substantive issues. |  |               |                  |            |
| <b>Programme module type:</b>   | Optional for Social Anthropology Postgraduate Programme.         |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 hours (seminar, lectures or tutorials). |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |            |

| SA5003 Social Organisation and Culture   |  |               |                  |            |
|--|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.  |               |                  |            |
| The module discusses the description of human society and culture, focusing on both theoretical and empirical issues by reference to selected ethnographic material. It will consider such matters as relativism, deconstructionism and the modelling of social forms and, at a more specific level, the main concepts for describing the institutional features of the full variety of human societies. |  |               |                  |            |
| <b>Programme module type:</b>  | Optional for Social Anthropology Postgraduate Programme.         |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours (seminar, lectures or tutorials). |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |            |

## Social Anthropology - Social Anthropology MRes & MPhil - 2015/16 - November 2015

| SS5101 Being a Social Scientist   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 3.00 - 5.00 pm Fri  |               |                  |   |
| <p>Through a series of interactive seminars this two-part module explores the fundamental skills required by all social scientists. In part one, the module will focus on how to design and produce a research dissertation. Assessment will be in the form of a critical essay that analyses the research design of papers from your disciplinary field. In part two, issues of professional development (e.g. ethics, careers, grant writing) will be addressed. Assessment will be in the form of a class test in which you will review and comment on two research proposals.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc in Sustainable Development and MSc in Sustainable Energy.<br>Compulsory for various MRes Programmes.<br>Optional for MRes in Psychology. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Leahy  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Kesby and Prof R Gray  |               |                  |   |

| SS5102 Philosophy and Methodology of the Social Sciences  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15                                     | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 2.00 - 4.00 pm Wed                     |               |                  |   |
| <p>This seminar based module will introduce you to the basic theoretical approaches in the social sciences, encourage you to make connections between the methodological and epistemological issues involved in conducting social scientific research, and inspire you to reflect critically your own experience. The module will cover modern philosophy's historical evolution, positivism, feminism, critical theory and post-structuralism among other topics. Assessment will involve a one short review and one longer essay.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for various MRes Programmes |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%                      |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Leahy                             |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr V Paipais and various others        |               |                  |   |

## Social Anthropology - Social Anthropology MRes & MPhil - 2015/6 - November 2015

| <b>SS5103 Qualitative Methods in Social Research</b>  |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>   | 9.00 am - 11.00 am Fri (provisional)  |               |                  |   |
| <p>This seminar-based module offers both a theoretical and practical introduction to the collection, analysis and writing of qualitative social science research. Among other things, the module will cover positionality/ethics, archives, participant observation, participatory approaches, semi-structured interviewing and the use of NVIVO/computer aided qualitative data analysis. Assessment will involve a short reflection on field experience and a longer critical essay on a chosen aspect of qualitative research.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for various MRes Programmes<br>Compulsory for MRes in Human Geography<br>Compulsory for Sustainable Development and Sustainable Energy Taught Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2-hour seminar.  |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Leahy  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Kesby and various others   |               |                  |   |

| <b>SS5104 Quantitative Research in Social Science</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 15  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | 1.00 - 4.00 pm Mon  |               |                  |   |
| <p>This module provides a user-friendly introduction to the fundamental concepts of quantitative analysis. It will cover underlying principles, terminology, research design, sampling strategies, uncertainty and missing data, computerised data management and analysis and univariate and multivariate approaches to data analysis. The assessment will be in the form of weekly practical tasks completed in class and/or independently.</p> |   |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MSc Psychology (Conversion).<br>Optional for the MRes in Psychology.<br>Compulsory for various MRes Programmes.<br>Either GG5020 or SS5104 is compulsory for Human Geography Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 3-hour combined lecture and practical session.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr S Leahy  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Mr P L Gardner  |               |                  |   |

# Masters in Research In Social Anthropology and Amerindian Studies

## Programme Requirements

### MRes:

60 credits: SA5010, SA5011

60 credits: SA5201, SA5202, SA5203, or other SA5000 modules as available.

Students may substitute up to 30 credits from 3000- or 4000-level SA modules, with the approval of the Course Coordinator.

60 credits: SA5099

### MPhil:

120 credits as for the MRes plus a thesis of not more than 40,000 words

## Semester 1 module:

| SA5011 The Anthropology of Connections: Interdisciplinarity as Methodology  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module builds on SA5010 by examining the relevance of other disciplines for Social Anthropology. Through lectures and seminars, students are shown how Anthropology can be extended and illuminated by working with methodologies and concepts drawn from History, Social Science, Philosophy, Language and the Arts. It shows how anthropologists must invoke other specialist disciplines during their work. It invites students to think of societies and anthropological theories as informed by internal and external constraints, dialogues and reinterpretations, which unfold in time. It will show the role of anthropology in articulating different disciplines.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MRes in Anthropology, Arts and Perception, MRes in Social Anthropology with Pacific Studies and MRes in Social Anthropology and Amerindian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M High  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M High  |               |                  |   |



Semester 2 module:

| SA5010 Research Methods in Social Anthropology   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am Wed   |               |                  |   |
| This module aims to examine the methodology of anthropological research through close attention to the relationship between method and fieldwork experience. In particular, students are led into readings of fieldwork diaries, journals and letters, and invited to consider the experience of fieldwork and anthropological research in the round [i.e. not just as methodology for data collection]. A core focus is on what else about fieldwork experience and anthropological research practice we can learn from looking at diaries and letters rather than just at published ethnographic monographs. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Anthropology, Arts and Perception, MRes in Social Anthropology with Pacific Studies and MRes in Social Anthropology and Amerindian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Reed  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Reed  |               |                  |   |

Compulsory module - Whole Year:

| SA5099 Dissertation   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.   |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Anthropology, Social Anthropology Social Anthropology and Amerindian Studies, and Social Anthropology with Pacific Studies Postgraduate Programmes.<br>Either SA5022 or SA5099 is compulsory for Anthropology, Art and Perception Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Reed  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Reed  |               |                  |            |

Optional modules:

| SA5201 Amerindian Language and Literature  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| This module introduces students to different forms of oral and written expression in Amerindian Societies, with Quechua and Spanish as the commonest languages taught. The course also prepares students to confront problems of linguistic and textual interpretation, as well as introducing them to more recent issues in intercultural and literacy studies. |   |               |                  |            |
| <b>Programme module type:</b>  | Optional for Social Anthropology and Amerindian Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Prof T Platt  |               |                  |            |

| SA5202 Amerindian History and Ethnography  |   |               |                  |            |
|--|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |            |
| The module examines the South American continent in time and space, with emphasis on the evidential and methodological bases of specialised and comparative knowledge. Using sample texts and sources, it introduces students to the problems of interpreting information collected in "the field" and in "the archive", as well as preparing them to explore the published and unpublished sources on the region. |   |               |                  |            |
| <b>Programme module type:</b>  | Optional for Social Anthropology and Amerindian Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 hours.   |               |                  |            |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>  | Dr M Harris   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr M Harris   |               |                  |            |

| SA5203 Special Subject (Amerindian Studies)   |   |               |                  |            |
|---|---|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |            |
| This is chosen in discussion with the supervisor, and is available for students with a well-thought-out and specific research interest in a particular topic. It can substitute for one of the preceding two modules. |   |               |                  |            |
| <b>Programme module type:</b>   | Optional for Social Anthropology and Amerindian Studies Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 Hours.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr M Harris   |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M Harris   |               |                  |            |

## Masters in Research In Social Anthropology with Pacific Studies

### Programme Requirements

#### MRes:

60 credits: SA5010, SA5011

60 credits: SA5301 - SA5320, SA5521

60 credits: SA5099

Students may substitute up to 30 credits from 3000- or 4000-level SA modules, with the approval of the Course Coordinator.

### Compulsory module - Semester 1:

| SA5011 The Anthropology of Connections: Interdisciplinarity as Methodology  |  |               |                  |   |
|---|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30   | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.  |               |                  |   |
| <p>This module builds on SA5010 by examining the relevance of other disciplines for Social Anthropology. Through lectures and seminars, students are shown how Anthropology can be extended and illuminated by working with methodologies and concepts drawn from History, Social Science, Philosophy, Language and the Arts. It shows how anthropologists must invoke other specialist disciplines during their work. It invites students to think of societies and anthropological theories as informed by internal and external constraints, dialogues and reinterpretations, which unfold in time. It will show the role of anthropology in articulating different disciplines.</p> |  |               |                  |   |
| <b>Programme module type:</b>   | Compulsory for MRes in Anthropology, Arts and Perception, MRes in Social Anthropology with Pacific Studies and MRes in Social Anthropology and Amerindian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>   | Dr M High  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr M High  |               |                  |   |

**Compulsory module - Semester 2:**

| SA5010 Research Methods in Social Anthropology   |  |               |                  |   |
|--|--|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30   | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Planned timetable:</b>  | 11.00 am Wed   |               |                  |   |
| This module aims to examine the methodology of anthropological research through close attention to the relationship between method and fieldwork experience. In particular, students are led into readings of fieldwork diaries, journals and letters, and invited to consider the experience of fieldwork and anthropological research in the round [i.e. not just as methodology for data collection]. A core focus is on what else about fieldwork experience and anthropological research practice we can learn from looking at diaries and letters rather than just at published ethnographic monographs. |  |               |                  |   |
| <b>Programme module type:</b>  | Compulsory for MRes in Anthropology, Arts and Perception, MRes in Social Anthropology with Pacific Studies and MRes in Social Anthropology and Amerindian Studies Postgraduate Programmes. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 1 lecture, 1 seminar.   |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%  |               |                  |   |
| <b>Module Co-ordinator:</b>  | Dr A Reed  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Dr A Reed  |               |                  |   |

**Compulsory module - Whole Year:**

| SA5099 Dissertation   |  |               |                  |            |
|---|--|---------------|------------------|------------|
| <b>SCOTCAT Credits:</b>   | 60   | SCQF Level 11 | <b>Semester:</b> | Whole Year |
| <b>Planned timetable:</b>   | At times to be arranged with the supervisor.   |               |                  |            |
| Student dissertations will be supervised by members of the teaching staff who will advise on the choice of subject and provide guidance throughout the research process. The completed dissertation of not more than 15,000 words must be submitted by the end of August. |  |               |                  |            |
| <b>Programme module type:</b>   | Compulsory for Anthropology, Social Anthropology Social Anthropology and Amerindian Studies, and Social Anthropology with Pacific Studies Postgraduate Programmes.<br>Either SA5022 or SA5099 is compulsory for Anthropology, Art and Perception Postgraduate Programme. |               |                  |            |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> Individual supervision.   |               |                  |            |
| <b>Assessment pattern:</b>  | Coursework (Dissertation) = 100%   |               |                  |            |
| <b>Module Co-ordinator:</b>   | Dr A Reed  |               |                  |            |
| <b>Lecturer(s)/Tutor(s):</b>  | Dr A Reed  |               |                  |            |

**Optional modules - but compulsory this session:**

| <b>SA5301 Anthropology of the Pacific 1</b>   |   |               |                  |   |
|---|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>   | 30  | SCQF Level 11 | <b>Semester:</b> | 1 |
| <b>Planned timetable:</b>   | To be arranged.   |               |                  |   |
| This module examines traditional issues and historical trends in the anthropology of the Pacific, with special reference to selected regions. It will cover both theoretical and substantive issues in Pacific ethnography. |   |               |                  |   |
| <b>Programme module type:</b>   | Optional for Social Anthropology with Pacific Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>  | <b>Weekly contact:</b> 2 seminars and 1 tutorial.                             |               |                  |   |
| <b>Assessment pattern:</b>  | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>   | Prof C Toren  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>  | Prof C Toren  |               |                  |   |

| <b>SA5302 Anthropology of the Pacific 2</b>  |   |               |                  |   |
|--|---|---------------|------------------|---|
| <b>SCOTCAT Credits:</b>  | 30  | SCQF Level 11 | <b>Semester:</b> | 2 |
| <b>Academic year:</b>  | 2014/5  |               |                  |   |
| <b>Availability restrictions:</b>  |   |               |                  |   |
| <b>Planned timetable:</b>  | To be arranged.   |               |                  |   |
| This module looks at the challenges facing social anthropology and Pacific Studies in the twenty-first century. Students are invited to engage with current issues in the region through attention to contemporary and emerging debates within Pacific anthropology. |   |               |                  |   |
| <b>Programme module type:</b>  | Optional for Social Anthropology with Pacific Studies Postgraduate Programme. |               |                  |   |
| <b>Learning and teaching methods and delivery:</b>   | <b>Weekly contact:</b> 2 seminars and 1 tutorial.                             |               |                  |   |
| <b>Assessment pattern:</b>   | Coursework = 100%   |               |                  |   |
| <b>Module Co-ordinator:</b>  | Prof C Toren  |               |                  |   |
| <b>Lecturer(s)/Tutor(s):</b>   | Prof C Toren  |               |                  |   |

| Module Code  | Module Title   | Credits | Semester   | Planned Timetable  |
|--|--|---------|------------|--|
| <b>ANCIENT HISTORY</b>                             |  |         |            |  |
| AN5001   | Themes and Methods in Ancient History                                  | 60      | Whole Year | To be arranged.  |
| AN5004   | Integrated Study Abroad (Rome)   | 30      | 2          | To be arranged.  |
| AN5099   | Dissertation for MLitt Programme/s                                     | 60      | Whole Year | At times to be arranged with the supervisor.   |
| AN5103   | Religion and Society in the Ancient Greek World                        | 30      | 1          | To be arranged.  |
| AN5137   | Tyranny and Kingship in the Ancient Mediterranean                      | 30      | 1          | To be arranged.  |
| AN5140   | Religion and Society in the Roman Empire                               | 30      | 1          | To be arranged.  |
| AN5141   | The World of Late Antiquity  | 30      | 2          | To be arranged.  |
| <b>ARABIC (see also MIDDLE EASTERN LITERATURE)</b> |  |         |            |  |
| AR1001   | Arabic for Beginners 1   | 20      | 1          | 11.00 am or, if timetable clash, 12.00 noon on Mon; 11.00 am or, if timetable clash, 12.00 noon Tue - Fri, or 4.00 pm, Tue, Thu, Fri and 9.00 am Wed, or 2.00 pm, Tue, Thu, Fri and 9 am Wed |
| AR1002   | Arabic for Beginners 2   | 20      | 2          | 11.00 am or, if timetable clash, 12.00 noon on Mon; 11.00 am or, if timetable clash, 12.00 noon Tue - Fri, or 3.00 pm Tue - Fri, or 4.00 pm, Tue, Thu, Fri and 9.00 am Wed                   |
| AR2001   | Intermediate Arabic 1  | 20      | 1          | 10.00 am. If timetable clash, 2.00 pm Wed, Thu and Fri, or 4.00 pm Wed, Thu and Fri  |
| AR2002   | Intermediate Arabic 2  | 20      | 2          | 10.00 am. If timetable clash, 10.00 am Wed, 2.00 pm Thu and Fri, or 4.00 pm Wed, Thu and Fri   |
| <b>ART HISTORY</b>                                 |  |         |            |  |
| AH5094   | Current Issues in Renaissance Art                                      | 30      | 2          | To be arranged.  |
| AH5099   | Dissertation for MLitt Programme/s                                     | 60      | Whole Year | At times to be arranged with the supervisor.   |
| AH5100   | Art Historical Resources and Methods                                   | 30      | 2          | 11.00 am Wed   |
| AH5101   | Readings in Art History or History of Photography                      | 30      | 1 or 2     | To be arranged.  |
| AH5102   | Bibliography for Art History or History of Photography                 | 30      | 1 or 2     | To be arranged.  |
| AH5118   | Paragons of Northern Baroque: Rubens and Rembrandt                     | 30      | 1          | To be arranged.  |
| AH5140   | The University of St Andrews Photographic Collection                   | 30      | 1          | To be arranged.  |
| AH5142   | School: Images, Spaces, Artefacts and Ideas of Learning                | 30      | 1          | To be arranged.  |
| AH5146   | Issues in Photographic Criticism                                       | 30      | 2          | To be arranged.  |
| AH5147   | Palladio in Venice   | 30      | 2          | To be arranged.  |
| AH5152   | Re-staging Performance Art: The Politics of Audience and Documentation | 30      | 1          | To be arranged.  |

| Module Code                         | Module Title  | Credits | Semester   | Planned Timetable  |
|-------------------------------------|---|---------|------------|--|
| <b>ART HISTORY (continued)</b>      |   |         |            |  |
| AH5153                              | Byzantine Constantinople: Art and Architecture of an Imperial Capital                                     | 30      | 1          | To be arranged.  |
| AH5190                              | Experimental Art of the 1960s   | 30      | 2          | 3.00 pm Thu  |
| AH5197                              | Musing in the Museum  | 30      | 2          | To be arranged.  |
| AH5200                              | Ecole du Louvre Summer Study  | 60      | Summer     |  |
| AH5504                              | Theory and Practice of Museums, Art Galleries and Related Organisations, Part 1: Collections in Context   | 40      | 1          | All day Tue  |
| AH5505                              | Theory and Practice of Museums, Art Galleries and Related Organisations, Part 2: Audiences and Management | 40      | 2          | All day Tue.   |
| AH5506                              | Project Work (Museum and Gallery Studies)   | 40      | Whole Year | Wednesday morning.   |
| <b>ASTRONOMY (See also PHYSICS)</b> |   |         |            |  |
| AS4010                              | Extragalactic Astronomy   | 15      | 1          | 12.00 noon Mon, Tue, Thu (TBC)   |
| AS4011                              | The Physics of Nebulae and Stars 1  | 15      | 1          | 10.00 noon Mon, Tue, Thu (TBC)   |
| AS4012                              | The Physics of Nebulae and Stars 2  | 15      | 2          | 11.00 am odd Mon, Wed, Fri, 3.00 pm even Tue (TBC)   |
| AS4015                              | Gravitational and Accretion Physics   | 15      | 2          | 12.00 noon odd Mon, Wed, Fri, 3.00 pm even Mon (TBC)                                       |
| AS4025                              | Observational Astrophysics  | 15      | 1          | 2.00 pm - 5.30 pm Mon and Thu, plus some nights (TBC)                                      |
| AS5002                              | Magnetofluids and Space Plasmas   | 15      | 1          | 11.00 am Mon, Tue, Thu   |
| AS5003                              | Contemporary Astrophysics   | 15      | 1          | 12.00 noon Wed, Fri and 3.00 pm Mon  |
| <b>BIOLOGY</b>                      |   |         |            |  |
| BL4249                              | Scientific Diving   | 15      | 2          | Full Time 2-3 weeks in March/April   |
| BL4801                              | Aquaculture and Fisheries   | 10      | Distance   | To be arranged.  |
| BL4802                              | Biology for Aquaculture   | 20      | Distance   | To be arranged.  |
| BL4803                              | Biology for Aquaculture - Invertebrates   | 10      | Distance   | To be arranged.  |
| BL4804                              | Biology for Aquaculture - Vertebrates   | 10      | Distance   | To be arranged.  |
| BL5103                              | Population Biology of Marine Mammals  | 15      | 2          | To be arranged.  |
| BL5104                              | Conservation and Management of Marine Mammals   | 15      | 2          | 9.00 am (weeks 8 - 11)   |
| BL5111                              | Quantitative Methods for Biology  | 10      | 1          | To be arranged.  |
| BL5113                              | Statistical Modelling of Biological Data  | 20      | 1          | To be arranged. 4 weeks long.  |
| BL5121                              | Current Issues in Marine Mammal Behaviour   | 15      | 2          | To be arranged. (3 weeks)  |
| BL5122                              | Current Issues in Biologging  | 15      | 2          | 9.00 am (4 weeks)  |
| BL5124                              | Predator Ecology in Polar Ecosystems - a Field Course in Antarctica                                       | 15      | Whole Year | lectures in S1, field course in S2 including 3 weeks in southern Argentina and Antarctica) |
| BL5125                              | Advanced Bioacoustics for Marine Mammal Science   | 15      | 2          | To be arranged.  |
| BL5199                              | Marine Mammal Science Research Project  | 60      | Whole Year | To be arranged.  |
| BL5201                              | Biology of Marine Mammals   | 10      | 1          | To be arranged. Weeks 1 - 72   |

| Module Code | Module Title | Credits | Semester | Planned Timetable |
|-------------|--------------|---------|----------|-------------------|
|-------------|--------------|---------|----------|-------------------|

### BIOLOGY (continued)

|        |   |    |            |                             |
|--------|---|----|------------|-----------------------------|
| BL5202 | Case Studies in Marine Mammal Biology                           | 20 | 1          | To be arranged. Weeks 1 - 7 |
| BL5303 | Marine Systems Research Methods                                 | 20 | 2          | To be arranged.             |
| BL5304 | Ecosystem-based Management of Marine Systems                    | 15 | 1          | To be arranged.             |
| BL5305 | Professional Skills   | 5  | 2          | To be arranged.             |
| BL5322 | Marine Management, Policy and Planning                          | 20 | 2          | To be arranged.             |
| BL5323 | Advanced Modelling  | 20 | 2          | To be arranged.             |
| BL5399 | Ecosystem-Based Management of Marine Resources Research Project | 60 | Whole Year | To be arranged.             |
| BL5801 | Nutrition for Aquaculture                                       | 20 | Distance   | To be arranged.             |
| BL5802 | Management, Husbandry and Sustainability                        | 10 | Distance   | To be arranged.             |
| BL5803 | Health and Disease  | 20 | Distance   | To be arranged.             |
| BL5804 | Markets, Products, Processing and Food Safety                   | 10 | Distance   | To be arranged.             |
| BL5805 | Local and Global Impacts of Aquaculture                         | 10 | Distance   | To be arranged.             |
| BL5806 | Nutrition - Invertebrates                                       | 10 | Distance   | To be arranged.             |
| BL5807 | Nutrition - Vertebrates   | 10 | Distance   | To be arranged.             |
| BL5808 | Health and Disease - Invertebrates                              | 10 | Distance   | To be arranged.             |
| BL5809 | Health and Disease - Vertebrates                                | 10 | Distance   | To be arranged.             |
| BL5821 | Breeding and Genetics   | 10 | Distance   | To be arranged.             |
| BL5822 | Advanced Welfare and Ethics                                     | 10 | Distance   | To be arranged.             |
| BL5823 | Recirculation Aquaculture Systems                               | 10 | Distance   | To be arranged.             |
| BL5824 | Ornamental and Aquaria Production                               | 10 | Distance   | To be arranged.             |
| BL5825 | Larval Rearing  | 10 | Distance   | To be arranged.             |
| BL5899 | Sustainable Aquaculture Research Dissertation                   | 60 | Whole Year | To be arranged.             |

### CHEMISTRY

|        |   |    |            |                 |
|--------|---|----|------------|-----------------|
| CH3621 | Organic Chemistry Laboratory  | 10 | 1          | To be arranged. |
| CH3721 | Physical Chemistry Laboratory   | 10 | 1          | To be arranged. |
| CH4461 | Integrating Chemistry   | 10 | 1          | To be arranged. |
| CH4514 | Advanced Metal Chemistry  | 10 | 1          | To be arranged. |
| CH4515 | Advanced Main Group Chemistry   | 10 | 2          | To be arranged. |
| CH4612 | Blockbuster Pharmaceuticals   | 10 | 2          | To be arranged. |
| CH4614 | Heterocyclic and Pericyclic Chemistry                                 | 10 | 1          | To be arranged. |
| CH4615 | Fragrance, Food and Colour Chemistry                                  | 10 | 2          | To be arranged. |
| CH4713 | Interactions of Light with Matter                                     | 10 | 2          | To be arranged. |
| CH4714 | Conductivity, Electrochemical Processes and the Structure of Polymers | 10 | 1          | To be arranged. |
| CH4715 | Functional Materials and Electrons in Solids                          | 10 | 2          | To be arranged. |
| CH5442 | Chemistry Research Project for First Year MPhil                       | 60 | Whole Year | To be arranged. |
| CH5461 | Integrating Chemistry   | 10 | 1          | To be arranged. |
| CH5511 | Homogeneous Catalysis   | 10 | 1          | To be arranged. |
| CH5516 | Advanced Ligand Design  | 10 | 2          | To be arranged. |
| CH5517 | Advanced Molecular Inorganic Chemistry                                | 10 | 2          | To be arranged. |
| CH5518 | Blockbuster Solids  | 10 | 2          | To be arranged. |
| CH5611 | Asymmetric Synthesis  | 10 | 1          | To be arranged. |
| CH5612 | Natural Products, Biosynthesis and Enzyme Co-factors                  | 10 | 2          | To be arranged. |
| CH5613 | Reactive Intermediates  | 10 | 2          | To be arranged. |
| CH5614 | Chemical Biology  | 10 | 2          | To be arranged. |



| Module Code | Module Title | Credits | Semester | Planned Timetable |
|-------------|--------------|---------|----------|-------------------|
|-------------|--------------|---------|----------|-------------------|

### CHEMISTRY (continued)

|        |  |    |            |                 |
|--------|--|----|------------|-----------------|
| CH5616 | Molecular Recognition                                      | 10 | 2          | To be arranged. |
| CH5711 | Advanced Spectroscopic Methods                             | 10 | 1          | To be arranged. |
| CH5713 | Surface Science and Heterogeneous Catalysis                | 10 | 2          | To be arranged. |
| CH5714 | Chemical Applications of Electronic Structure Calculations | 10 | 2          | To be arranged. |
| CH5715 | Energy Conversion and Storage                              | 10 | 2          | To be arranged. |
| CH5716 | Processing of Materials                                    | 10 | 1          | To be arranged. |
| CH5717 | Nanostructured Materials                                   | 10 | 1          | To be arranged. |
| CH5821 | Research Skills in Chemistry                               | 10 | 2          | To be arranged. |
| CH5831 | Literature Review for MSc                                  | 10 | 1          | To be arranged. |
| CH5832 | Contemporary Research Awareness                            | 20 | Whole Year | To be arranged. |
| CH5841 | Research Project for MSc                                   | 60 | Summer     | To be arranged. |

### CLASSICS

|        |   |    |            |   |
|--------|---|----|------------|---|
| CL5099 | Dissertation for MLitt Programme/s            | 60 | Whole Year | At times to be arranged with the supervisor |
| CL5201 | Themes and Methods in Classics                | 60 | Whole Year | To be arranged.                             |
| CL5305 | Research Training: Special Topic 1            | 15 | 1 or 2     | To be arranged.                             |
| CL5306 | Research Training: Special Topic 2            | 30 | 1 or 2     | To be arranged.                             |
| CL5401 | Representations of Women in the Ancient World | 30 | 2          | To be arranged.                             |
| CL5425 | Classical Reception                           | 30 | 1          | To be arranged.                             |

### COMPARATIVE LITERATURE

|        |  |    |   |                 |
|--------|--|----|---|-----------------|
| CO5001 | Apples and Oranges: Issues in Comparative Literature | 20 | 1 | To be arranged. |
| CO5002 | The Contemporary Canon: Why Books Sell               | 20 | 2 | To be arranged. |

### COMPUTER SCIENCE (see also INFORMATION TECHNOLOGY)

|        |  |    |   |                 |
|--------|--|----|---|-----------------|
| CS4052 | Logic and Software Verification                    | 15 | 1 | To be arranged. |
| CS4102 | Computer Graphics                                  | 15 | 2 | To be arranged. |
| CS4103 | Distributed Systems                                | 15 | 2 | To be arranged. |
| CS4201 | Programming Language Design and Implementation     | 15 | 1 | To be arranged. |
| CS4202 | Computer Architecture                              | 15 | 1 | To be arranged. |
| CS4203 | Computer Security                                  | 15 | 2 | To be arranged. |
| CS4204 | Concurrency and Multi-Core Architectures           | 15 | 2 | To be arranged. |
| CS4302 | Multimedia   | 15 | 1 | To be arranged. |
| CS4303 | Video Games  | 15 | 1 | To be arranged. |
| CS4402 | Constraint Programming                             | 15 | 2 | To be arranged. |
| CS5001 | Object-Oriented Modelling, Design and Programming  | 15 | 1 | Variable        |
| CS5002 | Programming Principles and Practice                | 15 | 1 | Variable        |
| CS5003 | Masters Programming Projects                       | 15 | 2 | Variable        |
| CS5010 | Artificial Intelligence Principles                 | 15 | 1 | To be arranged. |
| CS5011 | Artificial Intelligence Practice                   | 15 | 1 | To be arranged. |
| CS5012 | Language and Computation                           | 15 | 2 | To be arranged. |
| CS5019 | Artificial Intelligence (Special Subject)          | 15 | 2 | To be arranged. |
| CS5021 | Advanced Networks                                  | 15 | 1 | To be arranged. |
| CS5023 | Mobile and Wireless Networks                       | 15 | 2 | To be arranged. |
| CS5029 | Networks and Distributed Systems (Special Subject) | 15 | 2 | To be arranged. |

| Module Code | Module Title | Credits | Semester | Planned Timetable |
|-------------|--------------|---------|----------|-------------------|
|-------------|--------------|---------|----------|-------------------|

| <b>COMPUTER SCIENCE (continued)</b> |  |    |            |  |
|-------------------------------------|--|----|------------|--|
| CS5030                              | Software Engineering Principles                                      | 15 | 1          | To be arranged.  |
| CS5031                              | Software Engineering Practice  | 15 | 1          | To be arranged.  |
| CS5032                              | Critical Systems Engineering   | 15 | 2          | To be arranged.  |
| CS5033                              | Software Architecture  | 15 | 2          | To be arranged.  |
| CS5039                              | Software Engineering (Special Subject)                               | 15 | 2          | To be arranged.  |
| CS5040                              | Human Computer Interaction Principles and Methods                    | 15 | 1          | To be arranged.  |
| CS5041                              | Interactive Software and Hardware                                    | 15 | 1          | To be arranged.  |
| CS5042                              | User-Centred Interaction Design                                      | 15 | 2          | To be arranged.  |
| CS5044                              | Information Visualisation and Visual Analytics                       | 15 | 2          | To be arranged.  |
| CS5098                              | Group Project and Dissertation in Computer Science                   | 60 | Summer     | To be arranged.  |
| CS5099                              | Dissertation in Computer Science                                     | 60 | Summer     | To be arranged.  |
| CS5899                              | Erasmus Mundus Dissertation in Dependable Software Systems           | 45 | Whole Year | To be arranged.  |
| <b>DIVINITY</b>                     |  |    |            |  |
| DI4632                              | Reading in the Greek New Testament                                   | 30 | 1          | Lecture: 11.00 am - 12.00 noon Thu, Seminar: 10.00 am - 12.00 noon Mon |
| DI4705                              | Biblical Aramaic   | 30 | 1          | Lecture: 2.00 pm - 3.00 pm Mon, Seminar: 2.00 pm - 4.00 pm Fri         |
| DI4726                              | Hebrew Readings  | 30 | 2          | 11.00 am - 2.00 pm Wed   |
| DI5080                              | Guided Study in Divinity   | 10 | 1 or 2     | To be arranged.  |
| DI5099                              | Dissertation for MLitt Programme/s                                   | 60 | 2          | At times to be arranged with the supervisor.                           |
| DI5105                              | Textual Criticism of the Hebrew Bible and the New Testament          | 20 | 1          | To be arranged.  |
| DI5106                              | Hebrew Readings  | 20 | 2          | To be arranged.  |
| DI5107                              | Greek Readings   | 20 | 2          | To be arranged.  |
| DI5201                              | History of Biblical Interpretation                                   | 20 | 1          | 10.00 am - 12.00 noon Tue and 10.00 am - 12.00 noon Thu                |
| DI5305                              | Practical Theology Special Topic                                     | 20 | 1 or 2     | To be arranged.  |
| DI5415                              | Theology Special Topic: (Title to be confirmed)                      | 20 | 1 or 2     | 3.00 pm - 5.00 pm Tue and 3.00 pm - 5.00 pm Thu                        |
| DI5429                              | Biblical Themes  | 40 | 2          | To be arranged.  |
| DI5431                              | Theological Engagements with the Arts: Rationales, Methods and Texts | 40 | 1          | 2.00 pm - 6.00 pm Thu  |
| DI5441                              | Christian Doctrine and the Arts                                      | 40 | 1          | 2.00 pm - 4.00 pm Tue and 2.00 pm - 4.00 pm Fri                        |
| DI5442                              | Religious Experience and Aesthetic Theory                            | 40 | 2          | To be arranged.  |
| DI5501                              | The Origins of Christian Theology                                    | 20 | 1          | 9.00 am - 11.00 am Tue and 9.00 am - 11.00 am Thu                      |
| DI5521                              | A Selected Modern Theologian   | 20 | 2          | 2.00 pm - 4.00 pm Tue and 10.00 am - 12.00 noon Thu                    |
| DI5522                              | A Selected Patristic Theologian                                      | 20 | 2          | 2.00 pm - 4.00 pm Tue and 10.00 am - 12.00 noon Thu (TBC)              |

| Module Code                  | Module Title  | Credits | Semester             | Planned Timetable                                    |
|------------------------------|---|---------|----------------------|--|
| <b>DIVINITY (continued)</b>  |   |         |                      |  |
| DI5523                       | The Doctrine of the Trinity                             | 20      | 1                    | 3.00 pm - 5.00 pm Tue and<br>3.00 pm - 5.00 pm Thu   |
| DI5526                       | A Selected Mediaeval Theologian                         | 20      | 2                    | 11.00 am - 1.00 pm Mon and<br>9.00 am - 11.00 am Wed |
| DI5901                       | The Bible and Contemporary Issues                       | 40      | 1                    | To be arranged.                                      |
| DI5924                       | Surveillance, Theology and the Bible                    | 40      | 2                    | Not relevant.  |
| DI5999                       | Dissertation (Distance Learning)                        | 60      | 1 & 2 (taught twice) | At times to be arranged with the supervisor.         |
| <b>ECONOMICS AND FINANCE</b> |   |         |                      |  |
| EC5201                       | Macroeconomics  | 20      | 1                    | To be arranged.                                      |
| EC5202                       | Microeconomics  | 20      | 1                    | To be arranged.                                      |
| EC5203                       | Econometric Methods and Applications                    | 20      | 1                    | To be arranged.                                      |
| EC5225                       | Experimental Economics                                  | 20      | 2                    | To be arranged.                                      |
| EC5299                       | Dissertation in Economics                               | 60      | Whole Year           | To be arranged.                                      |
| EC5601                       | Investment Analysis                                     | 20      | 1                    | To be arranged.                                      |
| EC5604                       | Corporate Finance                                       | 20      | 2                    | To be arranged                                       |
| EC5605                       | Monetary Policy   | 20      | 2                    | 2.00 pm Thu  |
| EC5606                       | Corporate Governance and Risk                           | 20      | 2                    | 9.00 am Tue  |
| EC5608                       | Financial Intermediation                                | 20      | 2                    | 10.00 am Wed.  |
| EC5609                       | Financial Econometrics                                  | 20      | 1                    | To be arranged.                                      |
| EC5611                       | Portfolio Theory and Management                         | 20      | 2                    | 9.00 am Mon  |
| EC5699                       | Finance Dissertation                                    | 60      | Whole Year           | At times to be arranged with supervisor.             |
| EC5722                       | Risk Management   | 20      | 2                    | To be arranged.                                      |
| EC5801                       | Money and Banking                                       | 20      | 1                    | To be arranged.                                      |
| EC5899                       | Dissertation in Money, Banking and Finance              | 60      | Whole Year           | To be arranged.                                      |
| EC5901                       | International Finance                                   | 20      | 1                    | To be arranged.                                      |
| <b>ENGLISH</b>               |   |         |                      |  |
| EN5004                       | Writing Poetry 1  | 40      | 1                    | To be arranged                                       |
| EN5005                       | Writing Poetry 2  | 60      | 2                    | To be arranged                                       |
| EN5006                       | Writing Prose 1   | 40      | 1                    | To be arranged                                       |
| EN5007                       | Writing Prose 2   | 60      | 2                    | To be arranged.                                      |
| EN5015                       | Reading the Mediaeval Text                              | 20      | 1                    | To be arranged.                                      |
| EN5017                       | Old English   | 20      | Whole Year           | To be arranged                                       |
| EN5018                       | Middle English Literature in Context                    | 40      | Whole Year           | To be arranged.                                      |
| EN5099                       | Dissertation for MLitt Programme/s                      | 60      | Whole Year           | At times to be arranged with the supervisor.         |
| EN5100                       | Literary Research: Skills and Resources                 | 20      | 1                    | To be arranged                                       |
| EN5101                       | Research Skills for Creative Writing                    | 20      | 1                    | To be arranged                                       |
| EN5105                       | Writing for Performance 1                               | 40      | 1                    | To be arranged.                                      |
| EN5106                       | Writing for Performance 2                               | 60      | 2                    | To be arranged.                                      |
| EN5112                       | Theories and Contexts                                   | 40      | Whole Year           | To be arranged                                       |
| EN5115                       | Women, Writing and Gender 1: Renaissance to Romanticism | 20      | 1                    | To be arranged                                       |
| EN5116                       | Women, Writing and Gender 2: Victorian to Contemporary  | 20      | 2                    | To be arranged                                       |
| EN5301                       | The Continental Renaissance                             | 20      | 2                    | To be arranged                                       |
| EN5303                       | Renaissance Popular Culture                             | 20      | 2                    | To be arranged                                       |

| Module Code   | Module Title  | Credits | Semester   | Planned Timetable  |
|---|---|---------|------------|--|
| <b>ENGLISH (continued)</b>                          |   |         |            |  |
| EN5304  | Learned Culture: Rhetoric, Politics and Identity                  | 20      | 1          | To be arranged   |
| EN5401  | Special Topic in English Studies 1                                | 20      | 1          | To be arranged   |
| EN5402  | Special Topic in English Studies 2                                | 20      | 2          | To be arranged   |
| EN5501  | Contextualising the Modern  | 20      | 1          | To be arranged   |
| EN5502  | Reading the Modern  | 20      | 1          | To be arranged   |
| EN5511  | Theorising the Contemporary                                       | 20      | 2          | To be arranged   |
| EN5512  | Contemporary Literature and Culture                               | 20      | 2          | To be arranged.  |
| EN5801  | Practical Pedagogy for Creative Writers                           | 20      | Whole Year | To be arranged.  |
| <b>ENVIRONMENTAL HISTORY</b>                        |   |         |            |  |
| EH5003  | Environmental History: Nature and the Western World (1800 - 2000) | 40      | 2          | To be arranged.  |
| EH5099  | Dissertation for MLitt Programme/s                                | 60      | Whole Year | At times to be arranged with the supervisor.                     |
| <b>FILM STUDIES</b>                                 |   |         |            |  |
| FM4108  | Digital Cinema  | 30      | 2          | 10.00 am - 12.00 noon Tue<br>(Screenings: 4.30 pm - 7.00 pm Mon) |
| FM4109  | Film and the Archive  | 30      | 2          | 2.00 pm - 4.00 pm Tue<br>(screening 5.00 pm - 7.30 pm Thu)       |
| FM4115  | Sensory Cinema  | 30      | 2          | 10.00 am - 12.00 noon Mon<br>(Screening 4.30 pm - 7.00 pm Tue)   |
| FM4116  | Stars   | 30      | 1          | 10.00 am - 12.00 noon Tue<br>(Screening 5.00 pm - 9.00 pm Mon)   |
| FM4303  | Documentary Cinema  | 30      | 2          | 12.00 noon - 2.00 pm Tue<br>(Screening 7.30 pm - 10.00 pm Mon)   |
| FM5001  | Theory and Practice of Research in Film Studies                   | 60      | Whole Year | 12.00 noon - 2.00 pm Mon<br>(Screening 2.00 pm - 4.30 pm Mon)    |
| FM5099  | Dissertation for MLitt Film Studies Programme                     | 60      | Whole Year | At times to be arranged with the supervisor.                     |
| FM5103  | Film Technologies and Aesthetics                                  | 30      | 1          | 12.00 noon - 2.00 pm Tue<br>(Screening 2.30 pm - 4.30 pm Tue)    |
| <b>FRENCH</b>                                       |   |         |            |  |
| FR5011  | French Literary Revolutions (40)                                  | 40      | 1          | To be arranged.  |
| FR5013  | French Literary Revolutions (20)                                  | 20      | 1          | To be arranged.  |
| FR5014  | Specialised Research in French Studies                            | 20      | 2          | To be arranged.  |
| FR5199  | Dissertation for MLitt Programme/s                                | 60      | Whole Year | At times to be arranged with the supervisor.                     |
| <b>GEOGRAPHY (see also SUSTAINABLE DEVELOPMENT)</b> |   |         |            |  |
| GG5000  | Conceptualising Geography   | 15      | 1          | To be arranged.  |
| GG5001  | Being a Human Geographer 1 - Theory and Practice                  | 15      | 1          | To be arranged.  |
| GG5002  | Being a Human Geographer 2 - Research Design                      | 15      | 2          | To be arranged.  |
| GG5003  | Advanced Geographical Research Methods                            | 15      | 2          | To be arranged.  |
| GG5099  | Dissertation in Human Geography                                   | 60      | Summer     | To be arranged.  |

| Module Code   | Module Title  | Credits | Semester   | Planned Timetable                            |
|---|---|---------|------------|--|
| <b>GERMAN</b>   |   |         |            |  |
| GM5011  | German Literary and Cultural Contexts: Turning Points (40)              | 40      | 1          | To be arranged.                              |
| GM5013  | German Literary and Cultural Contexts (20)                              | 20      | 1          | To be arranged.                              |
| GM5014  | Specialised Research in German Studies                                  | 20      | 2          | To be arranged.                              |
| GM5099  | Dissertation for MLitt Programme/s                                      | 60      | Whole Year | At times to be arranged with the supervisor. |
| GM5199  | Dissertation for German and Comparative Literature                      | 60      | Whole Year | At times to be arranged with the supervisor. |
| <b>GREEK</b>  |   |         |            |  |
| GK1001  | Greek Language for Beginners  | 20      | 1          | 10.00 am                                     |
| GK1002  | Greek Literature for Beginners  | 20      | 2          | 10.00 am                                     |
| GK1005  | Greek Language and Literature 1   | 20      | 1          | 10.00 am                                     |
| GK1006  | Greek Pastoral and Passion  | 20      | 2          | 10.00 am                                     |
| GK2001  | The Landscape of Greek Prose (A)  | 20      | 1          | 10.00 am                                     |
| GK2002  | The Landscape of Greek Poetry (A)                                       | 20      | 2          | 10.00 am                                     |
| GK2003  | The Landscape of Greek Prose (B)  | 20      | 1          | 10.00 am                                     |
| GK2004  | The Landscape of Greek Poetry (B)                                       | 20      | 2          | 10.00 am                                     |
| GK5099  | Dissertation for MLitt Programme/s                                      | 60      | Whole Year | At times to be arranged with the supervisor  |
| GK5102  | Greek Tragedy and Athenian Culture                                      | 30      | 1          | To be arranged.                              |
| <b>HISTORY</b>  |   |         |            |  |
| HI5002  | Historical Sources and Skills 1   | 40      | Whole Year | To be arranged.                              |
| HI5003  | Historical Sources and Skills 2   | 40      | Whole Year | To be arranged.                              |
| HI5004  | Historical Sources and Skills 3   | 20      | Whole Year | To be arranged.                              |
| HI5010  | Directed Reading in the History of War and Strategy                     | 30      | 1 or 2     | By agreement between tutor and student       |
| HI5099  | Dissertation for MLitt Programme/s                                      | 60      | Whole Year | At times to be arranged with the supervisor. |
| <b>INFORMATION TECHNOLOGY (see also COMPUTER SCIENCE)</b> |   |         |            |  |
| IS5101  | Masters Core Skills   | 15      | Whole Year | To be arranged.                              |
| IS5102  | Database Management Systems   | 15      | 1          | To be arranged.                              |
| IS5103  | Web Technologies  | 15      | 1          | To be arranged.                              |
| IS5104  | Information Security Management   | 15      | 1          | To be arranged.                              |
| IS5105  | Network Systems Management  | 15      | 2          | To be arranged.                              |
| IS5106  | Green Information Technology  | 15      | 2          | To be arranged.                              |
| IS5108  | Information Technology Projects   | 15      | 2          | To be arranged.                              |
| IS5188  | Group Project and Dissertation in Management and Information Technology | 60      | Summer     | To be arranged.                              |
| IS5189  | Dissertation in Management and Information Technology                   | 60      | Summer     | To be arranged.                              |
| IS5198  | Group Project and Dissertation in Information Technology                | 60      | Summer     | To be arranged.                              |
| IS5199  | Dissertation in Information Technology                                  | 60      | Summer     | To be arranged.                              |
| <b>INTERDISCIPLINARY MODULES</b>                          |   |         |            |  |
| ID5011  | Geographic Information Systems for Environmental Management             | 15      | 1          | To be arranged.                              |
| ID5059  | Knowledge Discovery and Datamining                                      | 15      | 2          | 11.00 am Mon (odd weeks), Wed and Fri        |

| Module Code | Module Title | Credits | Semester | Planned Timetable |
|-------------|--------------|---------|----------|-------------------|
|-------------|--------------|---------|----------|-------------------|

| <b>INTELLECTUAL HISTORY</b>    |  |    |            |   |
|--------------------------------|--|----|------------|---|
| IH5001                         | Current Controversies in Intellectual History                      | 20 | 1          | To be arranged.   |
| IH5002                         | Turning Points in the History of Ideas                             | 40 | 1          | To be arranged.   |
| IH5003                         | The Theory and Practice of Intellectual History                    | 20 | 2          | To be arranged.   |
| <b>INTERNATIONAL RELATIONS</b> |  |    |            |   |
| IR5001                         | International Security   | 30 | 1          | 11.00 am - 1.00 pm Wed  |
| IR5007                         | Terrorism and Liberal Democracy                                    | 30 | 2          | 3.00 pm Tue   |
| IR5029                         | Conflict and Peace in Post-Communist Eurasia                       | 30 | 2          | 1.00 pm - 3.00 pm Thu   |
| IR5030                         | Religion and International Politics                                | 30 | 2          | 11.00 am - 1.00 pm Tue  |
| IR5033                         | Identity and Collective Violence                                   | 30 | 2          | 11.00 am - 1.00 pm Wed  |
| IR5036                         | Critical Security Studies  | 30 | 1          | Lecture: 10.00 am - 11.00 am Mon, Tutorials: one of 1.00 pm - 2.00 pm, 2.00 pm - 3.00 pm or 3.00 pm - 4.00 pm Tue |
| IR5039                         | Political Economy of Conflict                                      | 30 | 2          | 2.00 pm - 4.00 pm Tue   |
| IR5042                         | Gender and Terrorism   | 30 | 2          | Thu (time to be confirmed)  |
| IR5050                         | Strategic Studies  | 30 | 2          | 11.00 am - 1.00 pm Mon  |
| IR5055                         | Agency and Strategy in Non-Western Political Thought               | 30 | 2          | 3.00 pm – 5.00 pm Mon   |
| IR5057                         | The Evolution of United Nations Peacekeeping                       | 30 | 2          | 10.00am - 12.00 noon Tue  |
| IR5058                         | New and Emerging Security Threats in the Caucasus and Central Asia | 30 | 2          | 10.00 am - 12.00 noon Wed   |
| IR5059                         | Political Order and Violence in the Middle East                    | 30 | 2          | 11.00 am - 1.00 pm Wed  |
| IR5099                         | Dissertation for MLitt Programme/s                                 | 60 | Whole Year | 5.00 pm - 6.00 pm Wed   |
| IR5151                         | Issues in Peace and Conflict                                       | 30 | 1          | 4.00 pm - 6.00 pm Tue   |
| IR5401                         | Texts in International Political Theory                            | 30 | 1          | 2.00 pm - 4.00 pm Tue   |
| IR5402                         | Analysis and Interpretation in International Political Theory      | 30 | 1          | 2.00 pm - 4.00 pm Thu   |
| IR5403                         | Political Philosophy and World Order                               | 30 | 2          | 11.00 am - 1.00 pm Wed  |
| IR5412                         | 'Reason of State': Origin, Nature and Career of a Concept          | 30 | 2          | 3.00 pm - 5.00 pm Thu   |
| IR5413                         | Topics in International Political Thought: Hannah Arendt           | 30 | 2          | 1.00 pm - 3.00 pm Thu   |
| IR5415                         | Ideologies and Social Movements in the Middle East                 | 30 | 1          | 10.00 am - 12.00 noon Wed   |
| IR5501                         | Core in Middle East and Central Asian Security Studies             | 30 | 1          | 1.00 pm - 4.00 pm Tue   |
| IR5510                         | Central Asia in Global Politics                                    | 30 | 2          | 1.00 pm - 3.00 pm Tue   |
| IR5527                         | Conflicts, Security and Democracy in the Greater Caucasus (30)     | 30 | 1          | 11.00 am - 1.00 pm Wed  |
| IR5528                         | Social Movements, Revolutions and Authoritarianism in North Africa | 30 | 2          | 11.00 am - 1.00 pm Wed  |
| IR5601                         | Research Methods in International Relations                        | 30 | 1          | 11.00 am - 1.00 pm Wed  |
| IR5701                         | Theories of Peace and Conflict                                     | 30 | 1          | 11.00 am - 1.00 pm Wed  |
| IR5723                         | Security and Conflict in Africa                                    | 30 | 2          | To be arranged.   |
| IR5728                         | Foreign Policy Analysis  | 30 | 2          | 11.00 am - 1.00 pm Thu  |
| IR5901                         | Fundamental Issues and Structures of Terrorism                     | 30 | 1          | 11.00 am Mon (lecture), 2.00 pm - 5.00 pm Tue (tutorials)   |
| IR5902                         | Research Methods   | 30 | 1          | 3.00 pm Mon   |

| Module Code                                | Module Title  | Credits | Semester   | Planned Timetable   |
|--|---|---------|------------|---|
| <b>INTERNATIONAL RELATIONS (continued)</b> |   |         |            |   |
| IR5903                                     | Terrorism: How to Respond   | 30      | 2          | 11.00 am Thu  |
| IR5904                                     | Terrorism and Theories of Collective Action   | 30      | 2          | 11.00 am Mon  |
| IR5921                                     | Fundamentals of Terrorist Violence  | 30      | 2          | 4.00 pm Mon, 3.00 pm - 4.30 pm Wed  |
| IR5951                                     | Fundamental Issues and Structures of Terrorism (Distance learning)                          | 30      | Whole Year | 1-hour lecture and 1-hour tutorial per fortnight + advertised office hours and online teaching materials.   |
| IR5952                                     | Research Methods (Distance learning)  | 30      | Whole Year | Online material and 1-hour tutorial per fortnight + advertised office hours   |
| IR5953                                     | Terrorism: How to Respond (Distance learning)   | 30      | Whole Year | 1-hour lecture and 1-hour tutorial per fortnight + advertised office hours  |
| IR5954                                     | Distance Learning Electives   | 30      | Whole Year | Part time - 1-hour lecture (if applicable - not all electives are delivered by lecture) and 1-hour tutorial per fortnight + advertised office hours plus online material. |
| IR5998                                     | Dissertation for Terrorism and Political Violence Studies MLitt Distance learning Programme | 60      | Whole Year | 3 x supervision sessions, at times to be arranged with the supervisor plus access to online dissertation teaching materials.  |
| IR5999                                     | Dissertation for Terrorism and Political Violence MLitt Programme                           | 60      | Summer     | 3 x supervision sessions, at times to be arranged with the supervisor plus access to online dissertation teaching materials.  |
| <b>ITALIAN</b>                             |   |         |            |   |
| IT5011                                     | Italian Literary and Cultural Contexts: Italians (40)                                       | 40      | 1          | To be arranged.   |
| IT5013                                     | Italian Literary and Cultural Contexts (20)   | 20      | 1          | To be arranged.   |
| IT5014                                     | Specialised Research in Italian Studies   | 20      | 2          | To be arranged.   |
| IT5099                                     | Dissertation for MLitt Programme/s  | 60      | Whole Year | At times arranged with the supervisor(s).   |
| <b>LATIN</b>                               |   |         |            |   |
| LT1001                                     | Elementary Latin 1  | 20      | 1          | 3.00 pm   |
| LT1002                                     | Elementary Latin 2  | 20      | 2          | 3.00 pm   |
| LT1003                                     | World of Latin 1  | 20      | 1          | 3.00 pm   |
| LT1004                                     | World of Latin 2  | 20      | 2          | 3.00 pm   |
| LT2001                                     | Latin Language and Literature 1   | 20      | 1          | 2.00 pm   |
| LT2002                                     | Latin Language and Literature 2   | 20      | 2          | 2.00 pm   |
| LT2003                                     | Latin in Progress 1   | 20      | 1          | 2.00 pm   |
| LT2004                                     | Latin in Progress 2   | 20      | 2          | 2.00 pm   |
| LT5001                                     | Roman Epic  | 30      | 1          | by arrangement.   |
| LT5005                                     | Late Imperial Literature  | 30      | 1          | To be arranged.   |
| LT5016                                     | Latin Didactic Poetry   | 30      | 2          | To be arranged.   |
| LT5018                                     | Literature in the Reign of Nero   | 30      | 1          | To be arranged.   |
| LT5099                                     | Dissertation for MLitt Programme/s  | 60      | Whole Year | At times to be arranged with the supervisor   |

| Module Code | Module Title | Credits | Semester | Planned Timetable |
|-------------|--------------|---------|----------|-------------------|
|-------------|--------------|---------|----------|-------------------|

### MANAGEMENT

|        |  |    |            |                           |
|--------|--|----|------------|---------------------------|
| MN5001 | Contemporary Global Issues in Management                           | 20 | 1          | To be arranged.           |
| MN5002 | Contemporary Conceptual Issues in Management                       | 20 | 2          | To be arranged.           |
| MN5310 | Banking and Finance  | 20 | 1          | To be arranged.           |
| MN5311 | Responsible Investment   | 20 | 2          | To be arranged.           |
| MN5320 | Research Methods in Banking and Finance (Econometrics 2)           | 20 | 2          | To be arranged.           |
| MN5399 | MRes Dissertation in Management Studies                            | 60 | Whole Year | To be arranged.           |
| MN5401 | International Marketing  | 20 | 1          | To be arranged.           |
| MN5405 | Dialogue and Debate in Marketing (Masterclasses)                   | 20 | 2          | To be arranged.           |
| MN5406 | Consumer Behaviour and Marketing Research                          | 20 | 1          | To be arranged.           |
| MN5421 | Managing People in Global Markets                                  | 20 | 1          | To be arranged.           |
| MN5423 | Global Business Strategy   | 20 | 1          | To be arranged.           |
| MN5424 | Corporate Finance and Accounting                                   | 20 | 2          | To be arranged.           |
| MN5425 | Masterclasses in International Business                            | 20 | 2          | To be arranged.           |
| MN5442 | Corporate Financial Management                                     | 20 | 1          | To be arranged.           |
| MN5443 | Research Methods in Finance (Econometrics 1)                       | 20 | 1          | To be arranged.           |
| MN5444 | Strategic Financial Management                                     | 20 | 2          | To be arranged.           |
| MN5461 | Strategic Management   | 20 | 1          | To be arranged.           |
| MN5470 | Managing Human Resources   | 20 | 2          | To be arranged.           |
| MN5471 | Marketing: Principles and Practice                                 | 20 | 1          | To be arranged.           |
| MN5473 | Skills and Challenges for the HR Professional                      | 20 | 2          | To be arranged.           |
| MN5480 | Managing and Developing People                                     | 20 | 1          | To be arranged.           |
| MN5481 | Masterclasses in Human Resource Management                         | 20 | 2          | To be arranged.           |
| MN5498 | Group Dissertation   | 60 | Whole Year | Workshops to be arranged. |
| MN5499 | Individual Dissertation  | 60 | Whole Year | Workshops to be arranged. |
| MN5501 | Scenario Thinking and Strategy                                     | 20 | 1          | To be arranged.           |
| MN5510 | Entrepreneurship, Innovation and Creativity                        | 20 | 1          | To be arranged.           |
| MN5511 | Leadership in Organisations  | 20 | 2          | To be arranged.           |
| MN5513 | Ethics, Organisations and Management                               | 20 | 1          | To be arranged.           |
| MN5515 | Entrepreneurship and Business Development                          | 20 | 2          | To be arranged.           |
| MN5554 | Marketing and Society  | 20 | 2          | To be arranged.           |
| MN5560 | Creative Marketing Communications                                  | 20 | 2          | To be arranged.           |
| MN5603 | Responsibility, Sustainability and Accountability in Organisations | 20 | 1          | To be arranged.           |
| MN5604 | Financial Systems  | 20 | 2          | To be arranged.           |
| MN5607 | International Financial Management                                 | 20 | 1          | To be arranged.           |
| MN5608 | Risk Management  | 20 | 2          | To be arranged.           |
| MN5611 | Alternative Investment   | 20 | 1          | To be arranged.           |
| MN5612 | Investments and Portfolio Management                               | 20 | 2          | To be arranged.           |
| MN5821 | Managing Non-Governmental Organisations                            | 20 | 2          | To be arranged.           |

### MATHEMATICS AND STATISTICS

|        |   |    |            |  |
|--------|---|----|------------|--|
| MT5099 | Dissertation for MSc Programme/s              | 60 | Whole Year | At times to be arranged with the supervisor. |
| MT5613 | Advanced Topics in the History of Mathematics | 20 | 1          | 12.00 noon Mon (odd), Wed & Fri.             |
| MT5701 | Advanced Statistical Inference                | 20 | 2          | 10.00 am Mon (odd weeks), Wed and Fri        |



| Module Code | Module Title | Credits | Semester | Planned Timetable |
|-------------|--------------|---------|----------|-------------------|
|-------------|--------------|---------|----------|-------------------|

### MATHEMATICS AND STATISTICS (continued)

|        |   |    |            |  |
|--------|---|----|------------|--|
| MT5753 | Statistical Modelling                           | 20 | 1          | 2.00 pm                                  |
| MT5756 | Data Analysis                                   | 20 | 1          | 2.00 pm                                  |
| MT5757 | Advanced Data Analysis                          | 20 | 2          | 12.00 noon Mon (even weeks), Tue and Thu |
| MT5758 | Applied Multivariate Analysis                   | 15 | 2          | 11.00 am Mon (even weeks), Tue and Thu   |
| MT5802 | Advanced Analytical Techniques                  | 20 | 2          | 12.00 noon Mon (odd weeks), Wed and Fri  |
| MT5806 | Advanced Computational Techniques               | 20 | 2          | 12.00 noon Mon (even weeks), Tue and Thu |
| MT5809 | Advanced Fluid Dynamics                         | 20 | 1          | 11.00 am Mon (odd weeks), Wed and Fri    |
| MT5810 | Advanced Solar Theory                           | 20 | 1          | 12.00 noon Mon (even weeks), Tue and Thu |
| MT5812 | Advanced Financial Mathematics                  | 20 | 1          | 2.00 pm Tue and Fri                      |
| MT5821 | Advanced Combinatorics                          | 20 | 2          | 12.00 noon Mon (odd weeks), Wed and Fri  |
| MT5823 | Semigroups                                      | 20 | 2          | 9.00 am Mon (odd weeks), Wed and Fri     |
| MT5824 | Topics in Groups                                | 20 | 1          | 10.00 am Mon (odd weeks), Wed and Fri    |
| MT5825 | Measure and Ergodic Theory                      | 20 | 1          | 10.00 am Mon (even weeks), Tue and Thu   |
| MT5831 | Advanced Bayesian Inference                     | 20 | 1          | 10.00 am Mon (even weeks), Tue and Thu   |
| MT5852 | Mathematical Biology 2                          | 20 | 1          | 9.00 am Mon (odd weeks), Wed and Fri     |
| MT5990 | Independent Study Module                        | 20 | 1 or 2     | To be arranged.                          |
| MT5991 | Professional Skills for Mathematical Scientists | 30 | Whole Year | To be arranged.                          |

### MEDICINE

|        |  |    |            |                 |
|--------|--|----|------------|-----------------|
| MD5001 | Theories of Health Psychology and Behaviour Change                     | 15 | 1          | To be arranged. |
| MD5002 | Quality of Life, Communication and Chronic Illness                     | 15 | 1          | To be arranged. |
| MD5003 | Biological Systems and Development                                     | 15 | 2          | To be arranged. |
| MD5004 | Health Information Prevention and Decision Making                      | 15 | 2          | To be arranged. |
| MD5090 | Research Project in Health Psychology                                  | 60 | Whole Year | To be arranged. |
| MD5101 | Training in Medical Research Skills                                    | 30 | 1          | To be arranged. |
| MD5191 | Short Research Project in Medicine                                     | 60 | Whole Year | To be arranged. |
| MD5201 | Issues in Global Health  | 15 | 1          | To be arranged. |
| MD5202 | Principles in Implementation Science                                   | 15 | 1          | To be arranged. |
| MD5203 | Ten Global Health Problems   | 15 | 1          | To be arranged. |
| MD5205 | Inequalities and Inequities in Global Health                           | 15 | 2          | To be arranged. |
| MD5206 | Evidence Synthesis for Global Health Policy, Programming, and Practice | 15 | 2          | To be arranged. |
| MD5299 | Dissertation in Global Health Implementation                           | 60 | Whole Year | To be arranged. |

| Module Code   | Module Title  | Credits | Semester             | Planned Timetable                            |
|---|---|---------|----------------------|--|
| <b>MEDIAEVAL HISTORY</b>  |   |         |                      |  |
| ME5001  | Special Topic in Mediaeval History  | 40      | Whole Year           | To be arranged.                              |
| ME5002  | Sources and Source Criticism (40)   | 40      | Whole Year           | To be arranged.                              |
| ME5005  | An Introduction to Palaeography with Codicological and Manuscript Studies   | 20      | Whole Year           | To be arranged.                              |
| ME5012  | Sources and Source Criticism (20)   | 20      | 1                    | To be arranged.                              |
| ME5099  | Dissertation for MLitt Programme/s  | 60      | Whole Year           | At times to be arranged with the supervisor  |
| <b>MEDIAEVAL STUDIES</b>  |   |         |                      |  |
| MS5001  | Approaches to Mediaeval Studies   | 40      | Whole Year           | To be arranged.                              |
| MS5021  | Core Language and Text Skills 1 (Greek, Italian or Arabic)                  | 20      | 1                    | To be arranged.                              |
| MS5022  | Core Language and Text Skills 2 (Greek, Italian or Arabic)                  | 20      | 2                    | To be arranged.                              |
| MS5023  | An Introduction to Palaeography with Codicological and Manuscript Studies   | 20      | Whole Year           | To be arranged.                              |
| MS5024  | Mediaeval Language  | 20      | 1 & 2 (taught twice) | To be arranged.                              |
| MS5025  | Discipline Skills   | 20      | 1                    | To be arranged.                              |
| MS5026  | Directed Reading in Mediaeval Studies 1                                     | 20      | 1                    | To be arranged.                              |
| MS5027  | Directed Reading in Mediaeval Studies 2                                     | 20      | 2                    | To be arranged.                              |
| MS5028  | Latin for Mediaeval Studies   | 20      | Whole Year           | To be arranged.                              |
| MS5099  | Dissertation for MLitt Programme/s  | 60      | Whole Year           | At times to be arranged with the supervisor. |
| <b>MIDDLE EASTERN HISTORY</b>                                   |   |         |                      |  |
| MH5001  | Directed Reading in Middle Eastern History                                  | 40      | Whole Year           | To be arranged.                              |
| MH5101  | Themes in Middle Eastern History and Politics                               | 40      | 1                    | To be arranged.                              |
| MH5111  | Iran and the World since 1921   | 40      | 2                    | To be arranged.                              |
| MH5112  | Mediaeval Iran: from the Sasanids to the Samanids                           | 40      | 2                    | To be arranged.                              |
| MH5201  | Middle Eastern Historical Translation                                       | 10      | 2                    | To be arranged.                              |
| <b>MIDDLE EASTERN LITERATURES (see also ARABIC and PERSIAN)</b> |   |         |                      |  |
| AP5011  | Middle Eastern Literary and Cultural Contexts(40)                           | 40      | 1                    | To be arranged.                              |
| AP5013  | Middle Eastern Literary and Cultural Contexts(20)                           | 20      | 1                    | To be arranged.                              |
| AP5014  | Specialised Research in Middle Eastern Literatures and Cultures             | 20      | 2                    | To be arranged.                              |
| AP5099  | Dissertation for MLitt Programme/s  | 60      | Whole Year           | At times arranged with the supervisor(s).    |
| <b>MODERN HISTORY</b>   |   |         |                      |  |
| MO5000  | Themes and Debates in Early Modern History                                  | 40      | Whole Year           | To be arranged.                              |
| MO5004  | War, State and Society in Early Modern Europe and New Worlds                | 40      | 1 or 2               | To be arranged.                              |
| MO5007  | The European Renaissance  | 40      | 1 or 2               | To be arranged.                              |
| MO5008  | The Creation of an Atlantic World   | 40      | 1 or 2               | To be arranged.                              |
| MO5009  | Law, Justice and Community: Court Records and British Society (1400 - 1800) | 40      | 1 or 2               | To be arranged.                              |
| MO5010  | Political Thought and Intellectual History                                  | 40      | 1 or 2               | To be arranged.                              |

| Module Code                       | Module Title  | Credits | Semester   | Planned Timetable                            |
|-----------------------------------|---|---------|------------|--|
| <b>MODERN HISTORY (continued)</b> |   |         |            |  |
| MO5011                            | Aspects of Reformation  | 40      | Whole Year | To be arranged.                              |
| MO5023                            | Disease and Environment (c.1500 - c.2000)                                     | 40      | 1          | To be arranged.                              |
| MO5030                            | Early Modern Documents and Sources  | 20      | 2          | 3.00 pm - 5.00 pm Thu                        |
| MO5031                            | Latin for Postgraduate Research   | 20      | Whole Year | 9.30 am - 11.00 am Mon and Tue               |
| MO5032                            | Material Bibliography   | 20      | Whole Year | 2.00 pm - 4.00 pm Thu                        |
| MO5033                            | Paleography and Manuscript Studies  | 20      | 1          | 11.00 am - 1.00 pm Fri                       |
| MO5099                            | Dissertation for MLitt Programme/s  | 60      | Whole Year | At times to be arranged with the supervisor. |
| MO5113                            | Books and their Readers in Early Modern Europe                                | 40      | Whole Year | To be arranged.                              |
| MO5151                            | Global Times - Plural Spaces 1  | 20      | 1          | To be arranged.                              |
| MO5152                            | Global Times - Plural Spaces 2  | 20      | 2          | To be arranged.                              |
| MO5161                            | Skills in Transnational History   | 40      | 1          | To be arranged.                              |
| MO5223                            | Disease and Environment (c.1500 - c.2000)                                     | 20      | 1          | To be arranged.                              |
| MO5301                            | History of Imperial Russia 1815-1917  | 40      | 1          | To be arranged.                              |
| MO5308                            | Approaches to Historical Theory   | 40      | 2          | To be arranged.                              |
| MO5402                            | The Soviet Union (1917-1991)  | 40      | 1          | To be arranged.                              |
| MO5503                            | Central and Eastern Europe since 1945   | 40      | 2          | To be arranged.                              |
| MO5601                            | History in the Making: Theories, Approaches and Practice                      | 40      | Whole Year | To be arranged.                              |
| MO5602                            | Directed Reading in Modern History  | 40      | 1 or 2     | To be arranged.                              |
| MO5604                            | Key Issues in German Historiography   | 40      | 1 or 2     | To be arranged.                              |
| MO5605                            | Themes in American History  | 40      | 1 or 2     | To be arranged.                              |
| MO5606                            | Perceptions of Central and Eastern Europe                                     | 40      | 2          | To be arranged.                              |
| MO5608                            | Themes and Debates in Modern French History                                   | 40      | 1          | To be arranged.                              |
| MO5609                            | Directed Reading in Modern History 2  | 40      | 2          | To be arranged.                              |
| MO5612                            | Global History, Globalisation and its Histories                               | 40      | 1          | Thu  |
| MO5613                            | History of Modern Science   | 40      | 1          | To be arranged.                              |
| MO5710                            | Crossing Borders: European History in Transnational Perspective               | 40      | 1          | To be arranged.                              |
| MO5935                            | Charles Darwin and the Politics of Progress in the Natural World              | 40      | Whole Year | To be arranged.                              |
| <b>MODERN LANGUAGES</b>           |   |         |            |  |
| ML5001                            | Literary and Cultural Theory (1)  | 20      | 1          | To be arranged.                              |
| ML5002                            | Literary and Cultural Theory (2)  | 20      | 2          | To be arranged.                              |
| ML5004                            | Research and Professional Skills  | 20      | 2          | To be arranged.                              |
| ML5006                            | Problems of Culture and Identity 1  | 20      | 1          | To be arranged.                              |
| ML5007                            | Problems of Culture and Identity 2  | 20      | 2          | 9.00 Wed                                     |
| ML5099                            | Dissertation for MLitt Programme/s  | 60      | Whole Year | At times to be arranged with the supervisor. |
| ML5104                            | Dissertation Report (Mundus)  | 20      | 2          | To be arranged.                              |
| ML5105                            | Europe and America: Dialogues and Identity Formation in Text, Film and Theory | 20      | 1 or 2     | 11.00 am Tue and Wed                         |
| ML5106                            | Short Dissertation Report (Master Mundus)                                     | 10      | 2          | To be arranged.                              |
| ML5107                            | Dissertation Progress (Mundus)  | 20      | 2          |  |
| ML5108                            | Work-Related Project (Master Mundus)  | 10      | 2          | To be arranged.                              |
| ML5199                            | Mundus Dissertation   | 40      | Whole Year | To be arranged.                              |
| ML5201                            | Film and Issues of European Identity  | 20      | 2          | 2.00 pm Tue and Wed                          |

| Module Code | Module Title | Credits | Semester | Planned Timetable |
|-------------|--------------|---------|----------|-------------------|
|-------------|--------------|---------|----------|-------------------|

**PERSIAN (See also MIDDLE EASTERN LITERATURES)**

|        |                         |    |   |                    |
|--------|-------------------------|----|---|--------------------|
| PR1001 | Persian for Beginners 1 | 20 | 1 | 2.00 pm Mon to Fri |
| PR1002 | Persian for Beginners 2 | 20 | 2 | 2.00 pm Mon to Fri |

**PHILOSOPHY**

|        |  |    |            |  |
|--------|--|----|------------|--|
| PY5099 | Dissertation for MLitt Programme               | 60 | Whole Year | At times to be arranged with the supervisor.           |
| PY5101 | Current Issues in Philosophy 1                 | 20 | 1          | 11.00 am - 1.00 pm Mon (at the University of Stirling) |
| PY5102 | Current Issues in Philosophy 2                 | 20 | 2          | 11.00 am - 1.00 pm Wed                                 |
| PY5103 | Research Methods                               | 20 | 1          | 3.00 pm - 4.30 pm Mon (at the University of Stirling)  |
| PY5201 | Classical Philosophy                           | 20 | 1          | To be arranged.  |
| PY5203 | Kant   | 20 | 2          | 12.00 noon - 2.00 pm Thu                               |
| PY5205 | Origins and History of Analytic Philosophy     | 20 | 1          | 2.00 pm - 4.00 pm Tue                                  |
| PY5207 | Action and Intention                           | 20 | 1          | 9.00 am - 11.00 am Wed                                 |
| PY5302 | Advanced Logic B: Classical Metatheory         | 20 | 2          | 2.00 pm - 4.00 pm Mon                                  |
| PY5312 | Aesthetics                                     | 20 | 2          | 10.00 am - 12.00 noon Fri                              |
| PY5315 | Philosophy of Law                              | 20 | 2          | 11.00 am - 1.00 pm Tue                                 |
| PY5318 | Political Philosophy in the Age of Revolutions | 20 | 2          | 1.00 pm - 3.00 pm Tue                                  |
| PY5319 | Topics in Recent Moral Theory                  | 20 | 1          | 2.00 pm - 4.00 pm Thu                                  |
| PY5324 | Philosophy of Logic                            | 20 | 2          | 3.00 pm - 5.00 pm Tue                                  |
| PY5325 | Texts in Contemporary Metaphysics              | 20 | 2          | 2.00 pm - 4.00 pm Fri                                  |
| PY5402 | Advanced Epistemology                          | 20 | 2          | 12.00 noon - 2.00 pm Mon                               |

**PHYSICS (see also ASTRONOMY)**

|        |                                      |    |   |  |
|--------|--------------------------------------|----|---|--|
| PH4022 | Nuclear and Particle Physics         | 10 | 1 | 9.00 am Wed and Fri (TBC)                          |
| PH4025 | Physics of Electronic Devices        | 15 | 2 | 9.00 am even Mon, Tue, Thu, 3.00 on odd Mon (TBC)  |
| PH4026 | Signals and Information              | 15 | 2 | 11.00 am odd Mon, Wed, Fri, 2.00 pm even Mon (TBC) |
| PH4027 | Optoelectronics and Nonlinear Optics | 15 | 1 | 9.00 am Tue, Thu, 3.00 pm Fri (TBC)                |
| PH4028 | Advanced Quantum Mechanics           | 15 | 2 | 12.00 noon Tue and Thu (TBC)                       |
| PH4031 | Fluids                               | 15 | 2 | 11.00 am even Mon, Tue, Thu, 2.00 pm odd Mon       |
| PH4032 | Special Relativity and Fields        | 15 | 1 | 3.00 pm Tue, 4.00 pm Tue, Fri (TBC)                |
| PH4034 | Laser Physics 1                      | 15 | 1 | 9.00 am Mon, 12.00 noon Wed, Fri (TBC)             |
| PH4035 | Principles of Optics                 | 15 | 2 | 12.00 noon odd Mon, Wed, Fri, 3.00 pm even Tue     |
| PH4036 | Physics of Music                     | 15 | 1 | 12.00 noon Mon, Tue, Thu                           |
| PH4037 | Physics of Atoms                     | 10 | 1 | 11.00 am Tue, Thu (TBC)                            |
| PH4038 | Lagrangian and Hamiltonian Dynamics  | 15 | 2 | 10.00 am odd Mon, Tue, Thu, 2.00 pm even Fri (TBC) |
| PH4039 | Solid State Physics                  | 15 | 1 | 11.00 am Wed, Fri, 2.00 pm Fri (TBC)               |
| PH4105 | Physics Laboratory 2                 | 15 | 1 | 2.00 pm - 5.30 pm Mon and 2.00 pm - 5.30 pm Thu    |
| PH5002 | Foundations of Quantum Mechanics     | 15 | 1 | 2.00 pm Mon, Tue, Fri                              |

| Module Code | Module Title | Credits | Semester | Planned Timetable |
|-------------|--------------|---------|----------|-------------------|
|-------------|--------------|---------|----------|-------------------|

**PHYSICS (continued)**

|        |   |    |        |  |
|--------|---|----|--------|--|
| PH5003 | Group Theory  | 15 | 1      | 12.00 noon Wed, Fri, 3.00 pm Mon (TBC)   |
| PH5004 | Quantum Field Theory  | 15 | 1      | 2.00 pm Thu, 3.00 pm Tue, Fri  |
| PH5005 | Laser Physics 2   | 15 | 1      | 10.00 am Mon, Tue, Wed, Thu  |
| PH5011 | General Relativity  | 15 | 1      | 9.00 am Wed, Fri, 3.00 pm Thu  |
| PH5012 | Quantum Optics  | 15 | 1      | 11.00 am Mon, Tue, Thu   |
| PH5014 | The Interacting Electron Problem in Solids                    | 15 | 1      | 4.00 pm Mon, Tue, Thu  |
| PH5015 | Applications of Quantum Physics                               | 15 | 1      | 12.00 noon Mon, Tue, Thu   |
| PH5016 | Biophotonics  | 15 | 1      | 9.00 am Mon, Wed, Fri  |
| PH5023 | Monte Carlo Radiation Transport Techniques                    | 15 | 1      | 2.00 pm Mon, Tue, Fri  |
| PH5177 | Research Project (POED MSc)                                   | 60 | Summer | Placement, full time.  |
| PH5180 | Laser Physics   | 20 | 1      | 10.00 am Mon, Tue, Wed, Thu  |
| PH5181 | Photonics Laboratory 1  | 15 | 1      | 2.00 pm - 5.30 pm Mon, Tue and Thu   |
| PH5182 | Displays and Nonlinear Optics                                 | 10 | 1      | To be arranged.  |
| PH5183 | Photonics Applications  | 15 | 1      | 9.00 am Mon, Wed, Fri, 11.00 am Wed, Fri, 12.00 noon Mon, Tue, Thu<br>Depending on options taken |
| PH5184 | Photonics Experimental Laboratory 2 (B21HL)                   | 15 | 2      | To be arranged.  |
| PH5185 | Semiconductor Optoelectronic Devices (B21OD)                  | 15 | 2      | To be arranged.  |
| PH5186 | Modern Optics (B21FM)   | 15 | 2      | To be arranged.  |
| PH5187 | Fibre Optic Communications (B21FC)                            | 15 | 2      | To be arranged.  |
| PH5209 | Polymers and Liquid Crystals for Displays - Distance Learning | 5  | 1      | To be arranged.  |
| PH5301 | Dissertation for MSc Programme                                | 60 | Summer | To be arranged.  |

**PSYCHOLOGY**

|        |  |    |            |  |
|--------|--|----|------------|--|
| PS4085 | Evolution and Development of Social and Technical Intelligence | 15 | 1          | 11.00 am - 1.00 pm Fri   |
| PS4091 | Computer-aided Research  | 15 | 1          | 9.00 am - 11.00 am Tue   |
| PS5002 | Research Project   | 60 | Whole Year | To be arranged with the supervisor.  |
| PS5003 | Generic Research and Professional Skills in Psychology         | 30 | Whole Year | To be arranged.  |
| PS5005 | Methods of Data Analysis in Psychology                         | 30 | 2          | 12.00 noon Mon   |
| PS5010 | Principal Approaches to the Origins of Mind                    | 30 | 1          | 10.00 am Seminars, 2.00 pm practicals/tutorials.                             |
| PS5011 | Empirical Approaches to the Evolution of Communication         | 15 | 1 or 2     | To be arranged.  |
| PS5012 | Origins of Human Cognition                                     | 15 | 2          | 9.00 am seminars, 2.00 pm practicals/tutorials.                              |
| PS5013 | Research Project   | 60 | Summer     | Not applicable.  |
| PS5021 | Methodologies for Psychology and Neuroscience                  | 15 | Whole Year | To be arranged.  |
| PS5031 | Review   | 15 | Whole Year | To be arranged.  |
| PS5101 | Intellectual Disability Research                               | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5102 | Data Collection and Sampling                                   | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |

| Module Code | Module Title | Credits | Semester | Planned Timetable |
|-------------|--------------|---------|----------|-------------------|
|-------------|--------------|---------|----------|-------------------|

**PSYCHOLOGY (continued)**

|        |  |    |            |  |
|--------|--|----|------------|--|
| PS5103 | Quantitative Data Analysis: Fixed Designs  | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5104 | Qualitative Data Analysis: Flexible Designs  | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5105 | Writing a Research Report  | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5106 | Undertaking a Small Scale Study  | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5199 | Dissertation for MSc Programme in Adults with Learning Disabilities who have Significant and Complex Needs | 60 | Whole Year | To be negotiated with supervisor, over a period of 12 months.                |
| PS5231 | Conceptual Issues and Theoretical Perspectives   | 10 | 1          | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (first half of semester)        |
| PS5232 | Assessment in Clinical Psychology  | 10 | 2          | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (second half of semester).      |
| PS5233 | Developmental Psychology   | 10 | 2          | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (first half of semester)        |
| PS5234 | Social Psychology  | 10 | 2          | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (first half of semester)        |
| PS5235 | Cognitive and Behavioural Neuroscience   | 10 | 1          | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (first half of semester)        |
| PS5236 | Evolutionary and Comparative Psychology  | 10 | 2          | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (second half of semester)       |
| PS5237 | Perception   | 10 | 1          | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Tue (second half of semester)       |
| PS5238 | Cognition  | 10 | 1          | 9.00 am - 11.00 am and 2.00 pm - 5.00 pm Thu (second half of semester)       |
| PS5240 | Review   | 15 | Whole Year | To be arranged.  |
| PS5401 | The Evidence on the Abuse of Adults  | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5402 | The Ecological Model of Adult Protection   | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5403 | The Individual at Risk and Significant Others  | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5404 | Protective Service Designs: The Setting and Service Agency   | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5405 | Regulatory Frameworks and Adult Protection Procedures  | 10 | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |

| Module Code                           | Module Title  | Credits | Semester   | Planned Timetable  |
|---------------------------------------|---|---------|------------|--|
| <b>PSYCHOLOGY (continued)</b>         |   |         |            |  |
| PS5406                                | Adult Support, Protection and Safeguarding: Ecological Model Assignment         | 10      | Whole Year | 100 notional hours of learning time (delivered by online distance learning). |
| PS5500                                | The Psychosocial Impact of Dementia   | 20      | 1          | 200 notional hours of learning time. Delivered by distance learning.         |
| PS5501                                | The Care of Individuals with Dementia   | 20      | 2          | 200 notional hours of learning time. Delivered by distance learning.         |
| PS5502                                | Implementing Effective Care   | 20      | Summer     | 200 notional hours of learning time. Delivered by distance learning.         |
| <b>PSYCHOLOGY - Distance learning</b> |   |         |            |  |
| CE5001                                | Distance Learning Programme: Challenging Behaviour                              | 15      | Whole Year | 150 notional hours of learning time (delivered by online distance learning). |
| CE5002                                | Distance Learning Programme: Mental Health                                      | 15      | Whole Year | 150 notional hours of learning time (delivered by online distance learning)  |
| CE5003                                | Distance Learning Programme: Offenders with Learning Disabilities               | 15      | Whole Year | 150 notional hours of learning time (delivered by online distance learning). |
| CE5004                                | Distance Learning Programme: Profound and Multiple Disabilities                 | 15      | Whole Year | 150 notional hours of learning time (delivered by online distance learning). |
| CE5005                                | Distance Learning Programme: Vulnerability, Victimization and Abuse             | 15      | Whole Year | 150 notional hours of learning time (delivered by online distance learning). |
| CE5006                                | Distance Learning Programme: Older People with Learning Disabilities            | 15      | Whole Year | 150 notional hours of learning time (delivered by online distance learning). |
| <b>RUSSIAN</b>                        |   |         |            |  |
| RU5011                                | Generations in Russian Literature and Culture (40)                              | 40      | 1          | To be arranged.  |
| RU5013                                | Generations in Russian Literature and Culture (20)                              | 20      | 1          | To be arranged.  |
| RU5014                                | Specialised Research in Russian Studies   | 20      | 2          | To be arranged.  |
| RU5099                                | Dissertation for MLitt Programme/s  | 60      | Whole Year | At times to be arranged with the supervisor.                                 |
| <b>SCOTTISH HISTORY</b>               |   |         |            |  |
| SC5051                                | Scotland's Pasts: Writing Scotland from the Middle Ages to the Present          | 40      | Whole Year | To be arranged.  |
| SC5052                                | Directed Reading in Scottish History  | 40      | 1 or 2     | To be arranged.  |
| SC5099                                | Dissertation for MLitt Programme/s  | 60      | Whole Year | At times to be arranged with the supervisor.                                 |
| SC5201                                | Religion and Identity in Early Modern Britain                                   | 40      | 1 or 2     | To be arranged.  |
| SC5202                                | Living with the Lion: Themes in the Study of Mediaeval Scotland                 | 40      | 1 or 2     | To be arranged.  |
| SC5203                                | Building Britain: The Construction and Deconstruction of Britishness since 1707 | 40      | 1 or 2     | To be arranged.  |
| <b>SOCIAL ANTHROPOLOGY</b>            |   |         |            |  |
| SA5001                                | Theory and Method in Social Anthropology  | 30      | Whole Year | To be arranged.  |
| SA5002                                | Current Issues in Social Anthropology   | 30      | Whole Year | To be arranged.  |
| SA5003                                | Social Organisation and Culture   | 30      | Whole Year | To be arranged.  |
| SA5010                                | Research Methods in Social Anthropology   | 30      | 2          | 11.00 am Wed   |

| Module Code   | Module Title  | Credits | Semester   | Planned Timetable   |
|---|---|---------|------------|---|
| <b>SOCIAL ANTHROPOLOGY (continued)</b>                  |   |         |            |   |
| SA5011  | The Anthropology of Connections: Interdisciplinarity as Methodology | 30      | 1          | To be arranged.   |
| SA5020  | Anthropology, Art and Perception 1                                  | 30      | 1          | To be arranged.   |
| SA5021  | Anthropology, Art and Perception 2                                  | 30      | 2          | 12.00 noon Thu  |
| SA5022  | Art and Perception 3: Dissertation with Practical Element           | 60      | Whole Year | At times to be arranged with the supervisor.                        |
| SA5099  | Dissertation  | 60      | Whole Year | At times to be arranged with the supervisor.                        |
| SA5201  | Amerindian Language and Literature                                  | 30      | Whole Year | To be arranged.   |
| SA5202  | Amerindian History and Ethnography                                  | 30      | Whole Year | To be arranged.   |
| SA5203  | Special Subject (Amerindian Studies)                                | 30      | Whole Year | To be arranged.   |
| SA5301  | Anthropology of the Pacific 1                                       | 30      | 1          | To be arranged.   |
| SA5302  | Anthropology of the Pacific 2                                       | 30      | 2          | To be arranged.   |
| <b>SOCIAL SCIENCES</b>                                  |   |         |            |   |
| SS5101  | Being a Social Scientist  | 15      | 1          | 3.00 - 5.00 pm Fri  |
| SS5102  | Philosophy and Methodology of the Social Sciences                   | 15      | 2          | 3.00 pm - 5.00 pm Wed   |
| SS5103  | Qualitative Methods in Social Research                              | 15      | 2          | 10.00 am - 12.00 noon Tue   |
| SS5104  | Quantitative Research in Social Science                             | 15      | 1          | 1.00 - 5.00 pm Mon  |
| <b>SPANISH</b>  |   |         |            |   |
| SP5011  | Patterns in Hispanic Literature and Film (40)                       | 40      | 1          | 2.00 pm - 3.00 pm Tue, 12.00 noon - 2.00 pm Thu                     |
| SP5013  | Patterns in Hispanic Literature and Film (20)                       | 20      | 1          | To be arranged.   |
| SP5014  | Specialised Research in Spanish and/or Latin American Studies       | 20      | 2          | To be arranged.   |
| SP5099  | Dissertation for MLitt Programme/s                                  | 60      | Whole Year | At times to be arranged with the supervisor.                        |
| <b>SUSTAINABLE DEVELOPMENT &amp; SUSTAINABLE ENERGY</b> |   |         |            |   |
| SD5001  | Interrogating Sustainable Development                               | 30      | 1          | 3.00 pm - 4.00 pm Tue, 9.00 am -10:00 am Wed, 9.00 am -10:00 am Fri |
| SD5003  | Master Class in Sustainable Development                             | 30      | 2          | 2.00 pm - 5.00 pm Tue   |
| SD5023  | Economics for the Environment                                       | 20      | 2          | 2.00 pm - 4.00 pm Thu   |
| SD5099  | Dissertation in Sustainable Development                             | 60      | Whole Year | 12.00 noon - 1.00 pm Tue  |
| SD5201  | Review Essay in Sustainable Energy                                  | 10      | TBC        | To be arranged.   |
| SD5299  | Dissertation in Sustainable Energy                                  | 50      | Whole Year | To be arranged  |