

# 2016 - 2017

## 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.

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 2016 - 2017).

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 2016 - 2017. 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 degree programmes normally comprise at least 120 credits in taught modules, of which a minimum of 90 credits should be from 5000-level modules plus a dissertation or research project.

The MPhil normally comprises 120 credits in taught 5000-level modules, plus a longer 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. The Postgraduate Certificate requires at least 60 credits of which a minimum of 40 credits should be from 5000-level modules.

The modules required for the award of each qualification are listed under each individual programme specification. It should be noted that some modules may be taken from outside the programme requirements 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

<http://www.st-andrews.ac.uk/media/teaching-and-learning/policies/PGT%20Credit%20Grades%20Awards.pdf>

Further information on progression from the taught to research degrees may be found in the Change of Registration policy, available online from <http://www.st-andrews.ac.uk/media/teaching-and-learning/policies/pg-change-of-reg.pdf>

## 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

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taught across the two semesters. The St Andrews teaching year has two semesters (September - December, and 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.** Where a single time is given (e.g. 9.00 am) the class meets for one hour.. If days of the week are not specified, the class meets every day from Monday to Friday, with the usual exception of Wednesday afternoons. Further details may be provided in this field.

**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- see below.

**Compulsory / Optional.** In the 'Programme module type' field, modules are identified as either 'Compulsory' or 'Optional' for a programme or group of programmes. 'Compulsory' modules must be taken for the programmes named. Modules defined as 'Optional' are appropriate to fulfil degree credit requirements for the named programme(s). Students may select 'Optional' modules and will be allowed entry to those modules which are agreed with their Adviser of Studies for each year of study.

**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. Where the pattern of teaching varies from week to week, **the average weekly contact is given**. Various activities may be included. (tutorials, laboratory work, practical sessions, lectures, fieldwork, consultation hours etc)

**Assessment pattern.** A brief description of the distribution between assessed 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**.

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**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)

**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**.

**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/>

**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. Postgraduate modules are normally 5000 level. 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 learning period, perhaps broken by a vacation or by an independent learning week in which no formal contact hours are provided. In most cases the learning block 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 in order to be awarded a qualification.

**Qualifications.** Each type of qualification (e.g. 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 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 2016/17**

## **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 [www.st-andrews.ac.uk/about/UniversityCourt/Ordinancesandresolutions](http://www.st-andrews.ac.uk/about/UniversityCourt/Ordinancesandresolutions). 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 POSTGRADUATE STUDENTS**

#### **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";

"MLitt" means "Master of Letters", "MSc" means "Master of Science", "MRes" means "Master of Research", "MSt(Res)" means "Master of Studies by Research", "MSc(Res)" means "Master of Science by Research", "MPhil" means "Master of Philosophy", "MFA" means "Master of Fine Arts", "DLang" means "Doctor of Languages", "PhD" means "Doctor of Philosophy", "MD" means "Doctor of Medicine", "DEng" means "Doctor of Engineering".

**B. AWARDS INCLUDING CREDIT-BEARING MODULES: POSTGRADUATE CERTIFICATES, DIPLOMAS AND DEGREES OF MASTER OF FINE ARTS, MASTER OF LETTERS, MASTER OF SCIENCE, MASTER OF RESEARCH, MASTER OF PHILOSOPHY AND DOCTOR OF ENGINEERING.**

All programmes that include credit-bearing modules must accord with the SCQF framework.

There are two routes to the MPhil, one by completion of credit-bearing modules and submission of a thesis as set in section B.I.4., and one by research as set out in section C.II. Both are research degrees.

**I. 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, two semesters for a part-time student and two years for a distance-learning 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 requirements,

shall be awarded the Postgraduate Certificate.

2. A candidate who has, over a period of not more than two semesters for a full-time student, two years for a part-time student and four years for a distance-learning student:
  - A. gained at least 120 credits, of which at least 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.

3. Unless otherwise stated in an agreement with another institution, a candidate who has, over a period of not more than one year for a full-time student, two years for a part-time student, and five years for a distance-learning student:
  - A. gained at least 180 credits in an approved programme, of which at least 150 are at 5000 level, and which include a dissertation or equivalent; and
  - B. satisfied the Committee of Examiners in the assessments for that programme and in the dissertation; and
  - C. satisfied the fee requirements,

shall be awarded the degree of MLitt or MSc or MRes, as appropriate.

4. Unless otherwise stated in an agreement with another institution, a candidate who has, over a period of not more than two years for a full-time student, four years for a part-time student, and six years for a distance-learning student:
  - A. gained at least 120 credits, of which at least 90 credits are at 5000 level, in an approved programme; and
  - B. submitted a thesis of up to 40,000 words or, within a programme approved by the Dean, the equivalent and appropriate alternative assessment; and
  - C. satisfied the Committee of Examiners in the assessments for that programme and in the dissertation; and
  - D. satisfied the fee requirements,



shall, if the thesis is approved, be awarded the degree of MPhil.

5. Unless otherwise stated in an agreement with another institution, a candidate who has, over a period of two years for a full-time student, four years for a part-time student, and six years for a distance-learning student:
  - A. gained at least 120 credits in an approved programme; and
  - B. submitted an assessment appropriate to the degree and approved by the Dean; and
  - C. satisfied the Committee of Examiners in the assessments for that programme; and
  - D. satisfied the fee requirements,

shall, if the thesis is approved, be awarded the degree of MFA.

6. 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 the Postgraduate Diploma.

## **II. Admission to a taught postgraduate programme**

1. To qualify for admission to a taught postgraduate 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. 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.
3. No applicant shall be eligible for admission and no student will be allowed to matriculate who will 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.

## **III. Mode of Study**

1. Applicants will be admitted as full-time, part-time or distance-learning students.
2. All full-time students shall, for the duration of a programme taught solely in St Andrews, be resident within a commutable distance of St Andrews in accordance with the Location of Study policy.
3. Students may request a change of status if they can satisfy the Dean of Faculty that it is appropriate.

## **IV. Nature and Duration of the Postgraduate Taught 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. 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.
3. The assessment for a module shall be by examination, by continuous assessment of course work, or by a combination of both.
4. The Head of School (or delegated representative) shall appoint a person to supervise the student's dissertation research 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.

#### **V. Registration**

1. 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.
2. A student's progress may be reviewed at the end of each semester of study, and at the student's request, a recommendation for registration into a different postgraduate degree programme can be made to the Dean by the the Head of School in accordance with the Postgraduate Change in Registration policy.

#### **VI. Assessment and awards**

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 at reassessment may be awarded the Certificate or Diploma where so qualified but not the Masters or higher degree. The only exception to this Regulation may be in the case of collaborative programmes where the exception will be detailed in specific programme documentation.
5. Once a pass grade has been achieved in a module a student cannot re-register for the module.
6. Students whose progress is deemed by the Head of School (or delegated representative) to be unsatisfactory on the grounds of failure to obtain 40 credits in one semester for a full time student, 20 credits in one semester for a part-time student or 20 credits in one academic year for a distance learning student may be required by the Dean of Faculty to terminate their studies at any time of the year.
7. 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 2 continuous weeks, shall, save in exceptional circumstances and with the permission

of the relevant Pro Dean, have forfeited the right to continue to attend the module, and may be required by the Dean of Faculty either to take Leave of Absence or to terminate their studies at any time of the year.

8. A written report, signed by the Board of Examiners, on each candidate who completes the taught component of the programme shall be submitted to the Dean of Faculty and shall recommend that:

in the case of a candidate for the Postgraduate Certificate:

- A. the Postgraduate Certificate be awarded; or
- B. the candidate be allowed to re-register for the Postgraduate Diploma; or
- C. the candidate not having achieved the required standard, no award should be made.

in the case of a candidate for the Postgraduate Diploma:

- A. the Postgraduate Diploma be awarded; or
- B. the candidate be allowed to re-register for the degree of MLitt, MSc, MFA, MPhil or MRes; or
- C. the candidate not having achieved the required standard, the Postgraduate Certificate be awarded where so qualified; or
- D. the candidate not having achieved the required standard, no award should be made.

in the case of a candidate for the degree of MLitt or MSc or MRes:

- A. the candidate be allowed to re-register for the degree of MFA or MPhil; or
- B. the candidate proceed to present the dissertation having satisfied regulation B.VI.4.; or
- C. the candidate be awarded the Postgraduate Diploma where so qualified; or
- D. the candidate be awarded the Postgraduate Certificate where so qualified; or
- E. the candidate not having achieved the required standard, no award should be made.

in the case of a candidate for the degree of MFA:

- A. the candidate be allowed to proceed to the second year of study; or
- B. the candidate be allowed to re-register for the degree of MLitt; or
- C. the candidate be awarded the Postgraduate Diploma where so qualified; or
- D. the candidate be awarded the Postgraduate Certificate where so qualified; or
- E. the candidate not having achieved the required standard, no award be made.

in the case of a candidate for the degree of MPhil:

- A. the candidate be allowed to proceed to the second year of study; or
- B. the candidate be allowed to re-register for the degree of MLitt, MSc or MRes; or
- C. the candidate be awarded the Postgraduate Diploma where so qualified; or
- D. the candidate be awarded the Postgraduate Certificate where so qualified; or
- E. the candidate not having achieved the required standard, no award be made.

9. Students who attain the appropriate grade may, at the discretion of the Board of Examiners, be recommended for the award of the degree of MLitt, MSc, or MRes with Distinction in relation to

the whole, or to the dissertation, or the taught component.

#### **VII. 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 and distance-learning students, or according to specific regulations pertinent to the programme of study. Exceptionally a candidate may be permitted a further period of three months beyond the reporting deadline in which to submit the dissertation with the permission of the relevant Pro Dean.
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. The approval of the Dean is also required for a dissertation containing extensive translations or quoted text to exceed 15,000 words.
3. The dissertation shall be prefaced with a declaration that it has been composed by the candidate, that the work of which it is a record has been done by the candidate alone or is in accordance with the School's group dissertation guidelines, and that it has not been accepted in any previous application for any degree.
4. Two copies of the dissertation shall be submitted according to the school requirements 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 internal examiners.
6. The Board of Examiners shall, on the basis of the written report of the examiners for the taught component 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. the Dissertation not having reached the required standard, the Postgraduate Diploma be awarded where so qualified (unless otherwise stated in an agreement with another institution).
7. 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.
8. 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.

#### **VIII. Thesis for MPhil and MFA**

1. The thesis shall be submitted not later than the end of the final year of study. 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 thesis shall be written in English. The normal maximum length of the thesis will be 40,000 words, excluding bibliography.
3. Within any programme approved by the Dean of Faculty, a different form of assessment, which has equivalent academic standing, may replace the thesis. Examples of such equivalents for the MFA are 40,000 words for creative prose; forty pages of poetry or 90 minutes of performance.
4. 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.

5. An abstract (not exceeding 300 words in length) of the thesis shall be submitted for the approval of the examiners. The abstract (and, where appropriate, the summary) shall be bound in with the thesis.
6. In exceptional circumstances the Dean of Faculty may give permission for the thesis to be presented in a different medium.
7. 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;
  - D. a statement of access or embargo to print and/or electronic copy of the thesis; and
  - 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.
8. The thesis shall give evidence of the candidate's capacity for independent research.
9. Reprints of published papers are not accepted in lieu of the formal thesis, which should take the form of a specially composed monograph.
10. 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.
11. The examiners shall recommend to the Dean:
  - 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, MSc, or Postgraduate Diploma where the work meets the required standard and is so qualified.
12. The Dean, once satisfied that all requirements of the Regulations have been observed, shall transmit the joint recommendations of the examiners to the Senatus Academicus.

## **IX. Resubmission of Thesis for MPhil and MFA**

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 may 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 approved subject to minor corrections to be completed within three months; or
  - C. that the thesis be rejected, and that the candidate be awarded the degree of MLitt, MSc, or Postgraduate Diploma where the work meets the required standard and is so qualified.

## **C. AWARDS FOR RESEARCH ONLY: MSc(Res), MSt(Res), MPhil (by research route) and PhD**

### **I. Degree of MSc(Res) or MSt(Res)**

1. A candidate who has, over a period of one year for a full-time student, two years for a part-time student and four years for a distance-learning student:
  - A. satisfied the Committee of Examiners in the assessment for the programme; and
  - B. submitted a thesis of up to 30,000 words 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 MSc(Res) or MSt(Res).

### **II. Degree of MPhil (by research route)**

1. A candidate who has, over a period two years for a full-time student, four years for a part-time student and six years for a distance-learning student:
  - A. satisfied the Committee of Examiners in the assessment for the programme; and
  - B. submitted a thesis of up to 60,000 words 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.

### **III. Degree of Doctor of Philosophy (PhD)**

1. A candidate who has:
  - A. satisfied the Committee of Examiners in the assessment for the programme; and
  - B. submitted a thesis of up to 80,000 words or, within a programme approved by the Dean, the

equivalent and appropriate alternative assessment OR submitted an approved portfolio of published work; and

C. satisfied the fee requirements,

shall be awarded the degree of PhD.

2. For the purpose of these regulations PhD is understood to include both DLang and DEng when DLang or DEng is not explicitly stated.

#### **IV. Admission to all Postgraduate Research Degrees**

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.

3. The Head of School may recommend admission of applicants, who satisfy conditions 2 A.-C. The Proctor has overall responsibility to monitor the management of postgraduate study.

4. Suitably qualified students, for example students with an existing Masters degree in a cognate area, may be granted direct entry to the second year of the MPhil (by research route) with the permission of the Dean.

5. 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.

6. 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.
7. 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.
8. Eligibility will be assessed by the University Fees Officer.
9. 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.

#### **V. Admission to PhD**

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. 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.
3. 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 test of English language competence recognised by the University is acceptable. 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.
4. 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.



## **VI. Student Progress**

1. All postgraduate research students and supervisors are required to conduct their research and supervision in accordance with the requirements of the Policy for Supervisors and Students in 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. 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. 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 Pro Dean. If problems persist the Head of School may recommend termination of studies to the Pro Dean and the matter will be decided by the 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.

## **VII. Mode of Study**

1. Candidates in full-time employment may not register as full-time students except with the written permission of their employer and the University.
2. All full-time students shall, for the duration of a programme delivered solely in St Andrews, be resident within a commutable distance of St Andrews in accordance with the Location of Study policy.

## **VIII. Duration and Place of Study**

1. Every candidate for the degree of MPhil 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 and distance learning students. 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 regulation C.V.2 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 MPhil (by research route) or 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 degree 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.

#### **IX. Submission and Examination of the MPhil (by research route) Thesis**

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 or distance-learning student. 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 two years of full-time research. It should be clearly written, well argued and should indicate a satisfactory knowledge of the field of study.
2. 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. The normal maximum length of the thesis will be 60,000 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. 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.

5. In exceptional circumstances the Dean of Faculty may give permission for the thesis to be presented in a different medium.
6. 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;
  - D. a statement of access or embargo to print and/or electronic copy of the thesis; and
  - 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. The thesis shall give evidence of the candidate's capacity for independent research.
8. Reprints of published papers are not accepted in lieu of the formal thesis, which should take the form of a specially composed monograph.
9. 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.
10. The examiners shall recommend to the Dean:
  - A. that the thesis be approved and the degree of MPhil 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 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 being of sufficient merit, the candidate be awarded the degree of MSc(Res) or MSt(Res); or
  - E. that the thesis be rejected, and that no award be made.
11. The Dean, once satisfied that all requirements of the Regulations have been observed, shall transmit the joint recommendations of the examiners to the Senatus Academicus.
12. A student who has been admitted to the MPhil (by research route) but who does not submit the thesis may apply to the Senatus Academicus to submit for the award of the degree of MSc(Res) or MSt(Res).

#### **X. Resubmission of the MPhil (by research route) Thesis**

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 may 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 be awarded; or
  - B. that the thesis be approved subject to minor corrections to be completed within three months; or
  - C. that the thesis being of sufficient merit, the candidate be awarded the degree of MSc(Res) or MSt(Res); or
  - D. that no award be made.

#### **XI. Submission and Examination of the PhD thesis or portfolio**

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. 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.

#### **XII. Presentation of PhD by 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;
  - D. a statement of access to or embargo of the print and / or electronic version of the thesis; and
  - 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 regulation C.V.2 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 2,000 and 3,000 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.

### **XIII. Examination of PhD 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 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 C.V.2 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/DEng be awarded without corrections; or
  - B. that the thesis be approved and the degree of PhD/DLang/DEng 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/DEng 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;
  - E. or 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 9G as an alternative option, but may not be the only recommendation at the first presentation of the thesis; or
  - F. that the thesis not being of sufficient merit, the candidate may be awarded the MPhil

(research), MSc(Res) or MSt(Res), where so qualified. This may not be the 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.

#### **XIV. Presentation of PhD by 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 Dean shall seek the comments of the appropriate School 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; and
  - C. Approval from the holder(s) of copyrights if required; and
  - D. In the event of the inclusion of works by multiple authors, a statement by the major author(s) of the publications indicating the candidate's contribution to the work in the three critical areas of conception, execution and writing; and
  - 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.

#### **XV. 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. Examination 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 Dean, 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.

#### **XVI. Resubmission of PhD by Thesis or Portfolio**

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 may 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 be approved and the degree of PhD be awarded subject to minor corrections; or
  - C. that, the thesis being of sufficient merit, the candidate be awarded the degree of MPhil; or
  - D. 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.
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 for 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 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 three years and after no more than four years of study as a matriculated student or the equivalent for part-time students. Exceptionally the submitted work may be presented after two 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 Taught 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.

## **VI. 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.
2. 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.
3. 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.
4. The work shall be written in English.
5. 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.
6. 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.
7. 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; and
  - B. a statement of the date of the candidate's admission as a research student; and
  - 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 Dean 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; and

- 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:

- A. that the thesis be approved and the degree of PhD in Creative Writing be awarded without corrections; or
- B. 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
- 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 in Creative Writing 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 MPhil (by research route) - this recommendation meaning that the candidate must resubmit a corrected thesis under the regulations for the degree of MPhil (by research route ), 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 D as an alternative option, but may not be the only recommendation at the first presentation of the thesis; or
- F. 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 may 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 be approved and the degree of PhD in Creative Writing be awarded, subject to minor corrections; or
  - C. that, the portfolio being of sufficient merit, the candidate be awarded the degree of MPhil or
  - D. that the portfolio be rejected.

## **E. DEGREE OF DOCTOR OF ENGINEERING (DEng)**

### **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".

"DEng" means "Doctor of Engineering".

### **II. Admission**

1. The Senatus Academicus may admit as candidates for the Degree of DEng persons who have been admitted as research students of the University and who have been recommended to register as DEng students by the Dean.
2. A DEng student shall matriculate and pay the appropriate fee each year.
3. A DEng student must normally be a full time student.
4. The Head of School shall appoint for each candidate an academic supervisor and an external 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 external supervisor shall be a member of staff of the external organisation which is sponsoring the student.

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

1. Every candidate for the Degree of DEng 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 external organisation 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 DEng 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 a DEng student or transfer of registration to that of an MPhil student.

### **IV. Thesis or portfolio**

1. Every candidate for the Degree of DEng shall present a thesis or portfolio 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 should take the form of documents such as published papers, unpublished papers containing original scientific or engineering investigations and/or analysis, 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 DEng students are eligible.
4. The thesis or portfolio shall normally be presented after four years and no later than five years since first matriculation. Exceptionally the thesis or portfolio may be presented after three years since first matriculation.

#### **V. The Examination**

1. The examination of the thesis or portfolio of 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 DEng 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 DEng 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 MPhil, MSc(Res) or MSc where so qualified; or
  - E. that the thesis or portfolio be rejected.

#### **VI. Resubmission**

1. The resubmission of the thesis or portfolio of 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 DEng be awarded; or
  - B. that the thesis or portfolio be approved and the degree of DEng be awarded, subject to minor corrections; or
  - C. that, the thesis or portfolio being of sufficient merit, the candidate be awarded the degree of MSc(Res); or
  - D. that the thesis or portfolio be rejected.

#### **F. DEGREE OF DOCTOR OF PERFORMING ARTS (DPERF)**

##### **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”;  
“DPerf” means the “Doctor of Performing Arts”;  
“MFA” means “Master of Fine Arts”;  
“Portfolio” means “body of work submitted for the Degree of DPerf, including any assessed performances”.

## **II. Admission**

1. The Senatus Academicus may admit as candidates for the degree of DPerf persons who have been admitted as research students of the University and who have been recommended to register as DPerf students by the Dean of Faculty. In exceptional circumstances the Senatus Academicus may admit as a candidate for the degree of DPerf 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 DPerf 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 only register as full-time students where there is written confirmation from the employer that a candidate will have sufficient time to dedicate to their studies, for instance where the DPerf is part of the candidate’s professional development.

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

1. Every candidate for the degree of DPerf at the Royal Conservatoire of Scotland will pursue a course of professional projects and supplementary studies and written work as set out in Regulation F.VI.1 during a period of not less than three years or its equivalent for part-time or flexibly programmed students.

## **V. Nature of Study**

1. The degree of DPerf is granted only for the submission of a body of work judged by the examiners to represent an outstanding level of professional development by a performing artist. The work will make a significant contribution to the candidate’s chosen artistic sphere. The candidate will be able to articulate the context for the work and how it enhances their artistic practice.
2. All students and supervisors are required to comply with the requirements of the Royal Conservatoire of Scotland’s Policy for Supervisors and Students in the Doctor of Performing Arts Programme.
3. The work of all students will be reviewed annually and the results reported to the Research Degrees Committee at the Royal Conservatoire of Scotland.
4. Where a student’s progress is not considered satisfactory at the annual review, they will receive a letter outlining the concerns in detail, and details of work to be submitted for a second review within 2-6 months as appropriate. If progress at the second review is not considered satisfactory, the Research Committee will request termination of studies in accordance with the Royal Conservatoire of Scotland’s Policy for Supervisors and Students in the Doctor of Performing Arts Programme.

## **VI. Methods of Presentation**

1. Candidates for the degree will be examined on the basis of a portfolio comprising (A) a series of professional projects and (B) supplementary studies and (C) written work. The portfolio will take the form of:
  - A. A series of professional projects (normally 4 major artistic projects and 1 development project). They will demonstrate an appropriately wide and deep professional practice at this level. They will form a coherent artistic unit.
  - B. A collection of taught supplementary studies, chosen to complement the Professional Projects and designed to enrich and deepen the candidate's artistic practice. These may be theoretical, practical or research-related studies as appropriate.
  - C. A body of written work which articulates the context for professional projects, and which reflects the student's artistic development and synthesises work undertaken in the supplementary studies. The written component will normally be 12,500-15,000 words (excluding bibliography and appendices).
2. The three elements are credit weighted. Across three years or part-time equivalent successful candidates will gain 360 credits for professional projects, and 120 credits for supplementary studies, and 60 credits for the written work. Credits for the supplementary studies may be awarded upon completion of approved taught modules but the credits for the professional projects and the written work will only be awarded following a successful viva voce examination. All credits must be obtained in order for the degree to be awarded.
3. The introduction to the portfolio will be prefaced by:
  - A. A declaration that the work has been undertaken by the candidate and has not been presented for any other degree.
  - B. A statement of the date of the candidate's admission as a student.
  - C. A statement by the supervisor that the Regulations have been fulfilled.
  - D. A statement of access to or embargo of the print and/ or electronic parts of the submission.

## **VII. The Examination**

1. The examination of the portfolio shall follow the same rules and procedures as laid down in the University of St Andrews Senate Regulations for PhD, except that:
  - A. The Research Degrees Committee of the Royal Conservatoire of Scotland will appoint one internal convener and two external examiners.
  - B. The examining committee shall make one of the following recommendations to the Senatus Academicus:
    - i. That the portfolio submitted be approved and the degree of DPerf be awarded; or
    - ii. That the portfolio submitted be approved and the degree of DPerf be awarded, subject to the making of any purely typographical corrections and revisions; or
    - iii. That the portfolio submitted 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 work be approved and the degree of DPerf be awarded; or
    - iv. That the portfolio submitted be not accepted in its present form but that the candidate be given the opportunity to revise the submission and to resubmit it within twelve months from the date of intimation to the candidate of the decision of the Examining



Committee – this recommendation meaning that candidate must resubmit a revised body of work, 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 portfolio submitted not being of sufficient merit, may be awarded the degree of MFA or an appropriate equivalent postgraduate diploma, where it meets the relevant criteria; this recommendation may be offered to the candidate at the same time as recommendation (D) as an alternative option, but may not be the only recommendation at the first presentation of the work; or
- vi. That, the portfolio submitted not being of sufficient merit, the candidate may resubmit the portfolio within twelve months for a further examination for the award of MFA or appropriate equivalent postgraduate diploma – this recommendation meaning that the candidate must resubmit a revised body of work under the regulations for the degree of MFA or postgraduate diploma, 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 (D) as an alternative option, but may not be the only recommendation at the first presentation of the work; or
- vii. That the portfolio be rejected and no award made. This may not be the recommendation at the first presentation of the portfolio.

#### **VIII. 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 revision deemed to be necessary by the examiners. The candidate shall be expected to take these into account in any resubmission of the work.
2. On resubmission of the work 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 any 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 may 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 exam the work submitted.
5. The examining committee shall make one of the following recommendations to the Senatus Academicus:
  - A. That the work submitted be approved and the degree of DPerf be awarded.
  - B. That, the work submitted being of sufficient merit, the candidate be awarded the degree of MFA or appropriate equivalent postgraduate diploma; or
  - C. That the work submitted be rejected.

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

There are two routes to the MD, one by research as set out below and one by submission of evidence

research as set out in section I. 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:

“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; and
- 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; and
- 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 for 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 two years and after no more than four years of study as a matriculated student, or the equivalent for part-time students. The thesis will not be accepted less than two years after matriculation.

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

1. The degree of MD 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 it has not been accepted in any previous application for any degree; and
  - B. a statement of the date of the candidate's admission as a research student; and
  - 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 the Registry Academic Support Office 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 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. 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 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.

## **H. DEGREE OF DOCTOR OF MEDICINE (MD) BY PORTFOLIO**

### **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 a candidate for the Degree of Doctor of Medicine in recognition of a corpus of work of a professional standard attained over an extended period of not less than ten years, containing original and significant contributions to the advancement of knowledge and learning which has given the candidate international distinction in their particular field.
2. A candidate must be either:
  - A. a graduate of the University of St Andrews who holds a qualifying degree in Medicine of at least ten years standing; or
  - B. a professor in the University with not less than four years service since the date of their appointment.
3. 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 international distinction in some branch or branches of learning.
2. Such evidence as is presented in terms of regulation H.III.1 shall be accompanied by the appropriate fee and a declaration signed by the candidate certifying either:
  - A. that the candidate is the sole author of the work; or
  - B. 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.

3. 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.
  - A. if after inquiry the Senatus Academicus is not satisfied with the declaration provided for in regulation H.III.2, the Senatus shall have power to refuse the application.
  - B. 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 regulation H.IV.
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.

#### **I. 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. The Senatus Academicus may admit a candidate for the Degree of Doctor of Science in recognition of a corpus of work of a professorial standard attained over an extended period of not less than ten years, containing original and significant contributions to the advancement of knowledge and learning which has given the candidate international distinction in their particular academic field.
2. A candidate must be either:
  - A. a graduate of the University of St Andrews provided that not less than ten years have elapsed from the date of their first graduation in the University; or
  - B. a professor of the University with not less than four years service since the date of appointment.
3. 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. 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 scientific knowledge of such substance and distinction as to give the candidate international distinction in some branch or branches of learning.

2. Such evidence as is presented in terms of regulation I.III.1 shall be accompanied by a declaration signed by the candidate certifying either:
  - A. that the candidate is the sole author of the work; or
  - B. 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.
3. 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.
  - A. If after inquiry the Senatus Academicus is not satisfied with the declaration provided for in I.III.2, the Senatus shall have power to refuse the application.
  - B. 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 regulation I.IV.
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 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.

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

##### **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 Letters" means the "Degree of Doctor of Letters in the University of St Andrews".

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

1. The Senatus Academicus may admit a candidate for the Degree of Doctor of Letters in recognition of a corpus of work of a professorial standard attained over an extended period of not less than ten years, containing original and significant contributions to the advancement of knowledge and learning which has given the candidate international distinction in their particular academic field.
2. A candidate must be either:
  - A. a graduate of the University of St Andrews provided that not less than ten years have elapsed from the date of their first graduation in the University, or
  - B. a professor in the University with not less than four years service since the date of their appointment.
3. Applications for admission as a candidate for the Degree of Doctor of Letters 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 Letters 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 Letters is a high one. The subject matter must be coherent and original and should form a contribution to the advancement of knowledge of the subject of such substance and distinction as to give the candidate international distinction in some branch or branches of learning.
2. Such evidence as is presented in terms of regulation J.III.1 shall be accompanied by a declaration signed by the candidate certifying either:
  - A. that the candidate is the sole author of the work; or
  - B. 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.
3. 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.
  - A. If after inquiry the Senatus Academicus is not satisfied with the declaration provided for in J.III.2, the Senatus shall have power to refuse the application.
  - B. 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 regulation J.IV.
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 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 knowledge by the candidate, the candidate



shall be awarded the degree.

#### **K. AUDITING MODULES**

1. 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 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 - 2016/7 - August 2016

### 4 - 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  
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

### 5 - School of Biology

Postgraduate Certificate:

Marine Mammal Science  
Sustainable Aquaculture (Vertebrates)  
Sustainable Aquaculture (Invertebrates)

Postgraduate Diploma:

Marine Mammal Science  
Sustainable Aquaculture

MSc:

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

### 6 - School of Chemistry

Postgraduate Certificate:

Computational Chemistry and Modelling (*see University of Edinburgh*)

MSc:

Chemical Science

MPhil:

Chemistry

### 7 - 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 - 2016/7 - August 2016

### 8 - School of Computer Science

Postgraduate Diploma:	Advanced Computer Science Artificial Intelligence Computing and Information Technology Data-Intensive Analysis Human Computer Interaction Information Technology Management and Information Technology ( <i>see Section 16</i> ) Networks and Distributed Systems Software Engineering
MSc:	Advanced Computer Science Artificial Intelligence Computing and Information Technology Data-Intensive Analysis Human Computer Interaction Information Technology Management and Information Technology Networks and Distributed Systems Software Engineering
Erasmus Mundus MSc:	Dependable Software Systems
DEng:	Computer Science
MPhil:	Advanced Computer Science Artificial Intelligence Computing and Information Technology Data-Intensive Analysis Human Computer Interaction Information Technology Management and Information Technology Networks and Distributed Systems Software Engineering

### 9 - School of Divinity

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

### 10 - Department of Earth and Environmental Sciences

MSc:	Geochemistry Oil and Gas Innovation
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### 11 - School of Economics & Finance

MSc:	Economics Finance Finance and Economics Money, Banking and Finance
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## Postgraduate Taught Courses - 2016/7 - August 2016

### 12 - School of English

MLitt: Creative Writing  
Mediaeval English (*not available 2016-2017*)  
Mediaeval Studies  
Modern and Contemporary Literature and Culture  
Romantic/Victorian Studies  
Shakespeare and Renaissance Literary Culture  
Women, Writing and Gender

MPhil: English Studies  
Mediaeval English  
Mediaeval Studies (*see Section 17*)  
Modern and Contemporary Literature and Culture  
Romantic/Victorian Studies  
Shakespeare and Renaissance Literary Culture  
Women, Writing and Gender

MFA: Creative Writing

### 13 - Department of Film Studies

MLitt: Film Studies

### 14 - Department of Geography & Sustainable Development

Postgraduate Certificate: Sustainable Development

Postgraduate Diploma: Sustainable Development

MSc: Sustainable Development  
Sustainable Development and Energy  
Sustainable Development and Environmental Economics

MRes: Human Geography  
Sustainable Development

### 15 - School of History

MLitt: The Book. History and Techniques of Analysis  
Central and East European Studies  
Early Modern History  
Environmental History  
Intellectual History  
Iranian Studies  
Legal and Constitutional History  
Mediaeval History  
Mediaeval Studies *see Section 17*)  
Middle Eastern History  
Modern History  
Reformation Studies  
Scottish Historical Studies  
Transnational, Global and Spatial History

MPhil: The Book. History and Techniques of Analysis  
Central and East European Studies  
Early Modern History

## Postgraduate Taught Courses - 2016/7 - August 2016

Environmental History  
Intellectual History  
Iranian Studies  
Mediaeval History  
Mediaeval Studies  
Middle Eastern History  
Modern History  
Reformation Studies  
Scottish Historical Studies  
Transnational, Global and Spatial History

### 16 - Interdisciplinary Degrees

MLitt: Management and Information Technology  
Mediaeval Studies

### 17 - 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  
Strategic 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 2016 - 2017*)

### 18 - School of Management

MLitt: Human Resource Management  
International Business  
International Business and Strategy  
Management  
Marketing

MSc: Banking and Finance  
Finance and Management  
Management and Information Technology (*see Section 16*)

MRes: Management Studies

### 19 - School of Mathematics & Statistics

MSc: Applied Statistics and Datamining  
Mathematics  
Statistics

## Postgraduate Taught Courses - 2016/7 - August 2016

### 20 - School of Medicine

MSc: Global Health Implementation  
Health Psychology

### 21 - School of Modern Languages

MLitt: Central and Eastern European Studies (*see Section 15*)  
Comparative Literature  
Cultural Identity Studies  
French Studies  
German Studies  
Italian Studies  
Mediaeval Studies (*see Section 16*)  
Middle Eastern Literary and Cultural Studies  
Russian Studies  
Spanish and Latin American Studies (*not available 2016 - 2017*)

MLitt Mundus Masters (EU): Crossways in Cultural Narratives

MLitt/MA: German and Comparative Literature

MPhil: Arabic  
Central and Eastern European Studies  
Comparative Literature  
Cultural Identity Studies  
French  
German  
Hispanic Studies  
Italian  
Mediaeval Studies  
Middle Eastern Literary and Cultural Studies  
Russian Studies  
Spanish and Latin American Studies

### 22 - Department of Philosophy

Graduate Diploma (Conversion): Philosophy

MLitt: Epistemology, Mind and Language  
History of Philosophy  
Logic and Metaphysics  
Moral, Political and Legal Philosophy  
Philosophy

MPhil: Philosophy

### 23 - School of Physics & Astronomy

MSc: Astrophysics  
Photonics and Optoelectronic Devices  
Physics (*contact School*)

DEng: Photonics

## Postgraduate Taught Courses - 2016/7 - August 2016

### 24 - 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  
Research Methods in Psychology  
Psychology (Conversion)

### 25 - 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

### 26 - Social Science Modules



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

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

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

#### **MPhil:**

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

**History of Photography** ([link](#))

**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 OR AH5200

### **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>	Summer
<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>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>	AH5200			
<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
<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. A fee of £500 applies and students are also expected to arrange and pay for their own travel and accommodation.</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:

AH5085 Art and Politics in the Trecento				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>Art in Italy in the period ca. 1230-1400 was sometimes employed to promote the political agendas of the city states. The kings of Naples, oligarchies such as Florence and Siena, and despotic regimes such as those of Milan and Verona employed imagery to express their ideals and achievements and to manipulate public opinion in their favour. This module will investigate the relationship between late medieval Italian art (but mainly sculpture) and competing political ideologies. It will also explore how regimes sympathetic to the Pope or to the German emperor employed art to declare allegiance to one or other of these two 'universal' powers.</p>				
<b>Programme module type:</b>	Optional for Art History Postgraduate Programmes within the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar per fortnight.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof B Cassidy			
<b>Lecturer(s)/Tutor(s):</b>	Prof B Cassidy			

AH5094 Current Issues in Renaissance Art				
<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 - 2016/7 - August 2016

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.			
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.				
<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			

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.			
<p>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.</p>				
<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			

## Art History - Art History MLitt & MPhil - 2016/7 - August 2016

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			

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>	1
<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			

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			

## Art History - Art History MLitt & MPhil - 2016/7 - August 2016

AH5196 The Book of Hours in the Late Middle Ages				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	11.00 am Fri			
<p>More Books of Hours survive from the late middle ages than any other type of manuscript. Books of Hours were the premier lay devotional guides from ca. 1360, when they surpassed the Psalter, until the Reformation of the sixteenth century when the printing press and sweeping social changes altered popular reading material. Between those termini, laypeople consumed large numbers of Books of Hours and owned the lion's share of them. They used them not only as vehicles for piety, but also as a means of self-expression, as highly crafted luxury goods, and as places to store other devotionalia. We will consider the early history and development of the Book of Hours, which grew out of the monastic breviary. Other topics include the changing methods of production, the implications of literacy, the feminization of reading, and the personalisation of Books of Hours.</p>				
<b>Programme module type:</b>	Optional for Art History and Mediaeval Studies 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 Rudy			

AH5198 The Dream of the North: Twentieth-Century Scandinavian Art and Design				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Scandinavian design of the last century is perceived as synonymous with understated elegance, functional integrity, natural symbiosis and inclusive, egalitarian thinking. Its seemingly timeless appeal (today's young Scandinavians still aspire to own many of the same design 'classics' as their parents) is underpinned by the unique characteristics of this northern region, known to its inhabitants as 'Norden'. This module explores these distinctive design aesthetics and the artistic, historical, social and political factors behind their development. Looking primarily at Denmark, Sweden, Norway and Finland, but also inviting students to expand their own potential fields of interest in Iceland, Greenland or the Faroe Islands, it addresses the fertile marriage of architecture and design. Themes include the centrality of the 'home', the deep relationship to landscape and nature, the importance of Scandinavian forms of social democracy and the fundamental belief in the egalitarian notion of 'Beauty for All'.</p>				
<b>Programme module type:</b>	Optional for Art History Postgraduate students.			
<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 Kallestrup			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Kallestrup			

## Masters in History of Photography

### *Taught Element*

120 credits: from AH5100, AH5101, AH5102, AH5111, AH5140, AH5141, AH5143, AH5146

### **MLitt:**

120 credits from the Taught Element plus AH5099 OR AH5200

### **MPhil:**

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

### **Compulsory module – for the MLitt:**

<b>AH5099 Dissertation for MLitt Programme/s</b>				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	Summer
<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>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>	AH5200			
<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
<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. A fee of £500 applies and students are also expected to arrange and pay for their own travel and accommodation.</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:

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 - History of Photography MLitt & MPhil - 2016/7 - August 2016

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.			
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.				
<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			

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			

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.			
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.				
<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			

## Art History - History of Photography MLitt & MPhil - 2016/7 - August 2016

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			

## Museum and Gallery Studies & National Trust for Scotland Studies

### 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 - 2016/7 - August 2016

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			



<b>AH5099 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 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:**

<b>AH5560 Theory and Practice of Museums, Art Galleries and Related Organisations, Part 1: Collections in Context</b>				
<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 - 2016/7 - August 2016

<b>AH5561 Theory and Practice of Museums, Art Galleries and Related Organisations, Part 2: Audiences and Management</b>				
<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.			
This module is only available to students taking the part-time Postgraduate Diploma, MLitt or M.Phil. in Museum & 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.				
<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			

<b>AH5562 Project Work (Museum and Gallery Studies)</b>				
<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.			
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.				
<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. (Weeks 1 - 7)			
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. (Weeks 8 - 11)			
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 - 2016/7 - August 2016

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 (Weeks 1 - 11)			
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 (Weeks 1 - 5)			
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 = 50%, Short Project = 50%			
<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. Costs of this EMMS module taught at SAMS are covered by course fees, and no additional costs will be incurred by students taking this module.</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 (June to mid-August)			
<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:

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			
<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 S Heymans			

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. Costs of this EMMS module taught at SAMS are covered by course fees, and no additional costs will be incurred by students taking this module.				
<b>Programme module type:</b>	Optional for MSc in Ecosystem-Based Management of Marine Systems			
<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)			



## Biology - Ecosystem-Based Management of Marine Systems - 2016/7 - August 2016

BL5323 Advanced Modelling				
<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. Costs of this EMMS module taught at SAMS are covered by course fees, and no additional costs will be incurred by students taking this module.</p>				
<b>Programme module type:</b>	Optional for MSc in Ecosystem-Based Management of Marine Systems			
<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)			

### Either:

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, workshops, 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. Participating students will need to cover all logistic expenses via payment of a substantial expedition fee.</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 11	<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. There are additional costs attached to this module which the student will be expected to meet.</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>	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. (Weeks 1 - 7)			
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, 6 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 - 2016/7 - August 2016

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. (Weeks 8 - 11)			
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			

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>	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>	Weeks 5 - 7			
<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 MRes 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			

BL5121 Current Issues in Marine Mammal Behaviour				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	Weeks 5 - 7			
<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			

BL5122 Current Issues in Biologging				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	Weeks 1 - 4			
<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 - 2016/7 - August 2016

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, workshops, 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. Participating students will need to cover all logistic expenses via payment of a substantial expedition fee.</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>	Weeks 1 - 4			
<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 and 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			



MT5751 Estimating Animal Abundance				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon Mon (odd), Wed and Fri			
<p>The module will introduce students to the main types of survey method for wildlife populations. It will cover simple methods in some detail and provide students with a conceptual framework for building understanding of more advanced methods. By the end of the course, students will be able to identify an appropriate assessment method for a given population, be able to design a simple survey to assess the population, and perform simple analyses of survey data. Students will get experience in using the methods via computer practical sessions involving design and analyses of surveys conducted by computer simulation.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics, also for some Postgraduate programmes outwith the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5 hrs lecture, 1 hr practical, 0.5 hr tutorial (weeks 1 - 10)			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Prof D L Borchers			
<b>Lecturer(s)/Tutor(s):</b>	Prof D L Borchers			



## Sustainable Aquaculture programmes

### Programme Requirements

#### Postgraduate Certificate:

Sustainable Aquaculture (Vertebrates)

BL4801, BL4804, BL5807, BL5809 and 2 of BL5802, BL5804, BL5805

#### Postgraduate Certificate:

Sustainable Aquaculture (Invertebrates)

BL4801, BL4803, BL5806, BL5808 and 2 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 for aquaculture, fisheries and agricultural products will be assessed. The environmental interactions of aquaculture will be discussed with relation to the definition of, and development of, sustainable aquaculture practices. The principles of developing sustainable aquaculture in different global environments/conditions will be discussed.				
<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				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	Distance Learning
Availability restrictions:	Not available to Undergraduate students			
Planned timetable:	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 requirements for developing sustainable aquaculture will be assessed.				
Programme module type:	Compulsory for Postgraduate Certificate in Sustainable Aquaculture (invertebrates). Either BL4802 or (BL4803 and BL4804) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes			
Anti-requisite(s):	BL4802			
Learning and teaching methods and delivery:	<b>Weekly contact:</b> 4 hours of lectures (x 5 weeks) and 3 hours of tutorials (x 3 weeks).			
Assessment pattern:	2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr N Hazon			
Lecturer(s)/Tutor(s):	Dr J A David			

BL4804 Biology for Aquaculture - Vertebrates				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	Distance Learning
Availability restrictions:	Not available to undergraduate students			
Planned timetable:	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				
Programme module type:	Compulsory for Postgraduate Certificate in Sustainable Aquaculture (vertebrates) Either BL4802 or (BL4803 and BL4804) is compulsory for Sustainable Aquaculture Postgraduate Diploma and MSc Programmes			
Anti-requisite(s):	BL4802			
Learning and teaching methods and delivery:	<b>Weekly contact:</b> 4 hours of lectures (x 5 weeks), and 3 hours of tutorials (x 3 weeks).			
Assessment pattern:	2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr N Hazon			
Lecturer(s)/Tutor(s):	Dr J A David			

## Biology - Sustainable Aquaculture - Cert, Diploma & MSc - 2016/7 - August 2016

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). 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, Dr S Wadsworth			

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). 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, Dr S Wadsworth			

## Biology - Sustainable Aquaculture - Cert, Diploma & MSc - 2016/7 - August 2016

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). 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). 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:

BL5802 Management, Husbandry and Sustainability				
<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. 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			

BL5804 Markets, Products, Processing and Food Safety				
<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. 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, Dr S Wadsworth			

## Biology - Sustainable Aquaculture - Cert, Diploma & MSc - 2016/7 - August 2016

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. 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 and the requirements for developing sustainable aquaculture will be assessed.				
<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			



<b>BL5801 Nutrition for Aquaculture</b>				
<b>SCOTCAT Credits:</b>	20	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 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.				
<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 J A David, Dr S Wadsworth			

<b>BL5803 Health and Disease</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	Distance Learning
<b>Planned timetable:</b>	To be arranged.			
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.				
<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:

BL5821 Breeding and Genetics				
<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			

BL5822 Advanced Welfare and Ethics				
<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			

BL5823 Recirculation Aquaculture Systems				
<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 - 2016/7 - August 2016

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.			
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.				
<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.			
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.				
<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 (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 - Chemical Science - 2016/7 - August 2016

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			

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:

#### Either

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 I A Smellie, Dr N S Keddie			
<b>Lecturer(s)/Tutor(s):</b>	Dr I A Smellie, Dr N S Keddie, Dr R J M Goss			



Or

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>	Compulsory for MSc in Geochemistry (unless BSc Chemistry is already held) Optional for Chemical Science MSc			
<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			

Either

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>Programme module type:</b>	Optional for Chemistry MPhil Optional for Chemical Science MSc			
<b>Anti-requisite(s):</b>	CH4455			
<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			

Or

CH4614 Heterocyclic and Pericyclic Chemistry				
SCOTCAT Credits:	10	SCQF Level 10	Semester:	1
Planned timetable:	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>				
Programme module type:	Optional for Chemistry MPhil Optional for Chemical Science MSc			
Anti-requisite(s):	CH4456			
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, plus a half-day site visit.			
Assessment pattern:	2-hour Written Examination = 100%			
Module Co-ordinator:	Dr R A Aitken			
Lecturer(s)/Tutor(s):	Dr R A Aitken, Dr E R Kay			

CH5461 Integrating Chemistry				
SCOTCAT Credits:	10	SCQF Level 11	Semester:	1
Availability restrictions:				
Planned timetable:	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>				
Programme module type:	Optional for Chemical Science MSc (unless CH4461 has been previously passed).			
Anti-requisite(s):	CH4461			
Learning and teaching methods and delivery:	<b>Weekly contact:</b> 2 classes per week over 8 weeks (Weeks 3-11) and a total of 3 x 1-hour seminars.			
Assessment pattern:	2-hour Written Examination = 60%, Coursework = 40%			
Module Co-ordinator:	Dr R Schaub			
Lecturer(s)/Tutor(s):	all staff			

## Chemistry - Chemical Science - 2016/7 - August 2016

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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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>	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			

CH5517 Advanced Physical Inorganic Chemistry				
<b>SCOTCAT Credits:</b>	10	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module involves distinct sections on photophysics of coordination complexes including theory and applications, and inorganic 'open shell' compounds including synthesis, characterisation and applications of paramagnetic inorganic species.				
<b>Programme module type:</b>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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 - Chemical Science - 2016/7 - August 2016

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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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>	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>	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 - Chemical Science - 2016/7 - August 2016

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>	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>	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>	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>	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>	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>	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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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>	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 Programme Director from the following: CH4461, CH4514, CH4515, CH4612, CH4614, CH4615, CH4715, CH4716, CH4717, 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.			
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.				
<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 8 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			

## Chemistry - MPhil in Chemistry - 2016/7 - August 2016

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>Anti-requisite(s):</b>	CH4455			
<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, Dr A Stasch			

CH4612 Blockbuster Pharmaceuticals				
<b>SCOTCAT Credits:</b>	10	SCQF Level 10	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
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, $\beta$ -blockers, prozac etc.				
<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			

CH4614 Heterocyclic and Pericyclic Chemistry				
<b>SCOTCAT Credits:</b>	10	SCQF Level 10	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
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.				
<b>Programme module type:</b>	Optional for Chemistry MPhil.			
<b>Anti-requisite(s):</b>	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			

## Chemistry - MPhil in Chemistry - 2016/7 - August 2016

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			

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.			
<p>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.</p>				
<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			

**CH4716 Electrochemistry and Computational Chemistry**

<b>SCOTCAT Credits:</b>	10	SCQF Level 10	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>One component of the module covers electrolyte solutions and ionic conductivity, equilibrium electrochemistry, electrode processes and applications of electrochemistry.</p> <p>The other component is a computational element, and will introduce aspects of modern computational chemistry related to the electronic structure of atoms, molecules and solids to achieve a basic understanding of the underlying approximations made in practical calculations, and consider applications of computed structures and energies in chemistry.</p>				
<b>Programme module type:</b>	Optional for MPhil in Chemistry			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2 hours of lectures (x 9 weeks) and 2 hours of tutorials over the semester.			
<b>Assessment pattern:</b>	2-hour Written Examination = 100%			
<b>Module Co-ordinator:</b>	Prof M Buck			
<b>Lecturer(s)/Tutor(s):</b>	Prof M Buck, Prof M Buehl			

**CH4717 Fundamentals of the Spectroscopy of Molecules and Solids**

<b>SCOTCAT Credits:</b>	10	SCQF Level 10	<b>Semester:</b>	2
<b>Planned timetable:</b>				
<p>This module describes the properties of matter relevant to their interaction with electromagnetic radiation. Absorption, transmission, reflection and diffraction of light across the electromagnetic spectrum are covered. There is a focus on microwave, infrared and NMR spectroscopy. Solid-state NMR spectroscopy will be compared with solution-state NMR and the advantages of solid-state NMR in obtaining structural information discussed.</p>				
<b>Programme module type:</b>	Optional for Chemistry MPhil.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2 hours of lectures (x 9 weeks) and 2 hours of tutorials over the semester.			
<b>Assessment pattern:</b>	2-Hour Written Examination = 100%			
<b>Module Co-ordinator:</b>	Dr R Schaub			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Schaub, Prof S E M Ashbrook			

**CH5511 Homogeneous Catalysis**

<b>SCOTCAT Credits:</b>	10	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>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.</p>				
<b>Programme module type:</b>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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			

## Chemistry - MPhil in Chemistry - 2016/7 - August 2016

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>	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			

CH5517 Advanced Physical Inorganic Chemistry				
<b>SCOTCAT Credits:</b>	10	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module involves distinct sections on photophysics of coordination complexes including theory and applications, and inorganic 'open shell' compounds including synthesis, characterisation and applications of paramagnetic inorganic species.				
<b>Programme module type:</b>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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			

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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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>	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>	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>	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			

## Chemistry - MPhil in Chemistry - 2016/7 - August 2016

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>	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>	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>	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>	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>	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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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			

## Chemistry - MPhil in Chemistry - 2016/7 - August 2016

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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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>	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: 30 credits: AN5002 - AN5199 (excluding AN5099)

Plus

30 credits: AN5002 - AN5199 (excluding AN5099), CL5001 - CL5098, CL5101 - CL5199, CL5301 - CL5499

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			

## Classics - Ancient History MLitt & MPhil - 2016/7 - August 2016

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:

AN5003 Integrated Study Abroad (Athens)				
<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 Athens			
<b>Planned timetable:</b>	To be arranged.			
Supervised study at the British School at Athens.				
<b>Programme module type:</b>	Optional for Ancient History Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> Preparatory seminars in St Andrews, the course in Athens 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 Athens			

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			

AN5101 Greek and Roman Warfare				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module studies the literary, iconographic and archaeological evidence for warfare in the Greek and Roman world. Various aspects will be highlighted, in particular the social and economic implications of war for ruling elites, for urbanisation and for ancient technology. It will approach the subject from a broad chronological perspective stretching from the Archaic to the Late Roman periods, thus allowing long-term trends and developments to be followed through, such as the role and influence of mercenaries, the rise of military professionalism (with its impacts on art and literature) and the presentation of military status within societies.</p>				
<b>Programme module type:</b>	Optional for Ancient History Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Coulston			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Coulston			

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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Anderson			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Anderson			

## Classics - Ancient History MLitt & MPhil - 2016/7 - August 2016

AN5105 The Achaemenid Persian Empire				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module introduces students to the history (and historiography) of one of the first world empires, that of the Achaemenid Persians. The module will cover the broad history of the Persian empire from its foundation by Cyrus the Great through to its destruction at the hands of Alexander the Great, but will also include discussion of a number of key themes, including Persian imperial ideology, the role of women in the imperial court, and the ways in which the ancient Persian past has been deployed in more recent history. A central focus throughout will be on the close reading of a range of ancient sources (Persian, Greek, Egyptian, and Babylonian) as well as analysis of different modern approaches.</p>				
<b>Programme module type:</b>	Optional module for Ancient History Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> : 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Prof T Harrison			

AN5108 Herodotus and Early Greek Historiography				
<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 origins of history-writing in the Greek world, with especial focus on the 'father of history', Herodotus. It will attempt to place the development of historiography in its intellectual, and historical context, looking in particular at the relationship of Herodotus to his predecessors (especially Hecataeus) and contemporaries. The themes covered will include: historical methodology and the use of sources; the representation of foreign peoples and of geography; and history-writing as a source for religious and philosophical ideas.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classics, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> : 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Prof T Harrison			



AN5112 The Archaeology of the City of Rome				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will provide an introduction to the history and archaeology of the city of Rome from her earliest foundation until the Early Mediaeval period. A wide variety of forms of evidence will be examined, including literary, epigraphic and iconographic sources, alongside the results of centuries of antiquarian studies and archaeological excavation. Among the themes pursued will be Italian urbanisation, Rome as Consumer City, Rome as centre of power, and Rome as patroness of architectural and artistic culture. Individual regions of the city will be examined in detailed topographical studies, and specific buildings will be analysed in respect of their economic functions and construction.</p>				
<b>Programme module type:</b>	Optional module for Ancient History Postgraduate Taught Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Coulston			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Coulston			

AN5137 Tyranny and Kingship in the Ancient Mediterranean				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr S Lewis			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Lewis			

## Classics - Ancient History MLitt & MPhil - 2016/7 - August 2016

AN5140 Religion and Society in the Roman Empire				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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 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.</p>				
<b>Programme module type:</b>	Optional for the Ancient History Classical Studies, Greek, Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<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>	1
<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, Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly).			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr C Machado			
<b>Lecturer(s)/Tutor(s):</b>	Dr C Machado			

AN5142 Ancient Empires				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module builds on the recent resurgence of interest in empire studies and specifically in the comparative history of ancient empires. The iron age empires that developed in the two millennia after the disintegration of the bronze age system were political formations of unprecedented scale and complexity. The Neo-Assyrians, Achaemenids, Seleukids, Romans, Han, and Sasanians (to mention only the most important) projected power over vast distances and ruled over massive, dispersed and heterogeneous populations. This module is an opportunity to engage in mutually illuminating comparison of at least two of those empires, exploring themes such as modes of control and exploitation, technologies of rule, relations with local elites, resistance and rebellion and underpinning cultures of imperialism.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Lavan			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Lavan			

AN5143 Slavery in the Ancient Mediterranean				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>The institution of slavery lay at the heart of Greek and Roman society and culture. At the apogee of the ancient Mediterranean system in the second century AD, slaves probably accounted for more than 10% of the total population, with the richest households boasting hundreds of slaves. This course offers a holistic perspective on slavery in the ancient Mediterranean. Students will have the opportunity to explore the demography, economics and law of slavery, analyse the mechanisms of control that enabled the wealthy to maintain the subjection of so many slaves, examine philosophical debates about the ethics of mastery, and trace the ramifications of the everyday experience of living with slaves throughout ancient culture and literature.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly).			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Lavan			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Lavan			

## Classics - Ancient History MLitt & MPhil - 2016/7 - August 2016

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>Anti-requisite(s):</b>	AN5005, CL5306			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

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 module for Classical Studies, Greek & Latin, Greek, and Latin Postgraduate Programmes.			
<b>Anti-requisite(s):</b>	AN5005, CL5305			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

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 module for Ancient History, Classical Studies, Greek and Latin, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr S Lewis			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Lewis			

CL5414 Magic in the Greco-Roman World				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module will examine magic and related phenomena in the Greco-Roman world. Attention will be paid both to the fascination with magic in literature and to magical beliefs and practices in real life. The module will necessarily explore the problems of defining magic and differentiating it from religion or from other ritual practices, and will examine different ways that the problems have been tackled from antiquity to the present day. Students will study - in English translation - both literary texts and documentary and archaeological evidence.				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Anderson			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Anderson			

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CL5421 Ted Hughes and the Classics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Ted Hughes, one of the most controversial and distinctive English poets of the twentieth century, engaged with classical literature and culture in a variety of ways, at various stages in his career. This included versions of dramas by Seneca, Aeschylus and Euripides, his Tales from Ovid, appropriation of form and details from Greco-Roman mythology, laureate and elegiac poetry, and combative engagement with Socratic rationalism. This module will consider this expansive record of classical material and seek to evaluate the role of classics in Hughes's oeuvre and Hughes's place in literary reception of the classics in the second half of the twentieth century.</p>				
<b>Programme module type:</b>	Optional module for Ancient History, Classical Studies, Greek, and Latin Postgraduate Taught Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Rees			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Rees			

CL5422 The Expansion of the Afterlife				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>The Underworld in the sixth book of Virgil's Aeneid is infinitely more complex than that of Homeric epic. What kinds of factors contributed to such change? In this module we shall read two key epic texts, separated by some c. 800 years, namely Homer, Odyssey 11, and Virgil; Aeneid 6. We shall examine some of the intervening trends in ancient thought, from the development of 'science' with the Presocratic philosophers, through Mystery-religions, to Plato and his reception in the late Roman Republic. We shall discuss which of these trends made the greatest impact on the picture of the epic Underworld between Homer and Virgil.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Gee			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Gee			

CL5423 Philosophy in Rome				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module will explore a tradition of philosophy which has often been considered 'secondary' or 'derivative', namely the writing of philosophical works by Romans, in Rome. This module aims to evaluate this tradition in its own right. A selection of texts will be read and discussed in translation. It will be seen that, taken as a whole, the Latin philosophical corpus presents an impressive record of cultural assimilation and innovation. We shall see how, from the Late Republic onwards, Roman philosophy engages with debates current in the Hellenistic philosophical schools, Romanizing them in the process, and placing them in the context of world order under the Roman empire.</p>				
<b>Programme module type:</b>	Optional module for Ancient History, Classical Studies, Greek, and Latin Postgraduate Taught Programmes.			
<b>Anti-requisite(s):</b>	LT4214			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

CL5425 Classical Reception				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Buckley			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Buckley			

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CL5429 Ethnography in Greek and Roman Culture				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>Thinking about foreign cultures was a powerful means of self-definition in Greek and Roman culture. It is also one of the richest themes in ancient literature, from the beginnings of Greek ethnography in the work of Hippocrates and Herodotus through to the vast and still underexplored body of ethnographic writing surviving from the Roman Empire and early Christian culture. This module offers an overview of that ethnographic tradition, combined with the opportunity to work in depth on particular authors and texts chosen by the student in consultation with the supervisors. Among other things it addresses questions about the way in which ethnographic writing is shaped by wider cultural and political pressures, and the way in which it is absorbed and reused within a wide range of different genres for different purposes.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof J Konig			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Konig, Prof T Harrison			

CL5430 Between Causes and Kriegsschuld: The Debate about the Hannibalic War from Fabius Pictor to Appian				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>The controversy about why the second war between Rome and Carthage broke out and who was responsible began during the war itself, in the historical works of Fabius Pictor, and remained a hotly debated topic for centuries, debated in the works of Greek (Polybius, Appian) and Roman (Livy) authors alike. Inevitably, the parameters of the discussion changed as pieces of information were lost, misunderstood or distorted over the centuries and as each of these authors re-interpreted the Roman past in their specific cultural, social and political contexts. In this module we will retrace the major steps of this debate by reading and discussing key passages from the works of the four authors mentioned above. Our aim is to achieve an in-depth understanding of Roman and Greek constructions of this crucial event, the interrelationship of causes and responsibility, and the ways in which historical narratives contribute to constructing different images of Roman foreign politics.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Latin and Greek and Latin Postgraduate programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr N Wiater			



## Greek and Latin 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>Anti-requisite(s):</b>	GK1005			
<b>Required for:</b>	DI2201, DI4613, DI4615, GK1002			
<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.				
<b>Programme module type:</b>	Optional for all Taught Postgraduate Programmes in the School of Classics except Greek			
<b>Anti-requisite(s):</b>	GK1006			
<b>Required for:</b>	GK2003			
<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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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>	TBC			
<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, 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 N Wiater			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

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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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

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			
<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			

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 of Classics 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.</p>				
<b>Programme module type:</b>	Optional for all Taught Postgraduate Programmes in the School of Classics except Latin			
<b>Anti-requisite(s):</b>	LT1004			
<b>Required for:</b>	LT2003			
<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 - Ancient History MLitt & MPhil - 2016/7 - August 2016

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 E Gee			
<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 Buckley			
<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 of Classics except Latin			
<b>Pre-requisite(s):</b>	LT1004	<b>Anti-requisite(s):</b>	LT2003	
<b>Required for:</b>	LT2002			
<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 Wiater			
<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 of Classics except Latin			
<b>Pre-requisite(s):</b>	LT2001	<b>Anti-requisite(s):</b>	LT2004	
<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 Gee			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

## Classics - Ancient History MLitt & MPhil - 2016/7 - August 2016

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 of Classics except Latin			
<b>Pre-requisite(s):</b>	LT2001	<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 of Classics 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 M.Phil 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}.

**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 module:

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> Weekly or fortnightly 2-hour seminars plus tutorials 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 - Classical Studies MLitt & MPhil - 2016/7 - August 2016

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>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Individual supervisors assigned as required			

### Optional modules:

AN5101 Greek and Roman Warfare				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module studies the literary, iconographic and archaeological evidence for warfare in the Greek and Roman world. Various aspects will be highlighted, in particular the social and economic implications of war for ruling elites, for urbanisation and for ancient technology. It will approach the subject from a broad chronological perspective stretching from the Archaic to the Late Roman periods, thus allowing long-term trends and developments to be followed through, such as the role and influence of mercenaries, the rise of military professionalism (with its impacts on art and literature) and the presentation of military status within societies.				
<b>Programme module type:</b>	Optional for Ancient History Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Coulston			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Coulston			

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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Anderson			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Anderson			

AN5105 The Achaemenid Persian Empire				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module introduces students to the history (and historiography) of one of the first world empires, that of the Achaemenid Persians. The module will cover the broad history of the Persian empire from its foundation by Cyrus the Great through to its destruction at the hands of Alexander the Great, but will also include discussion of a number of key themes, including Persian imperial ideology, the role of women in the imperial court, and the ways in which the ancient Persian past has been deployed in more recent history. A central focus throughout will be on the close reading of a range of ancient sources (Persian, Greek, Egyptian, and Babylonian) as well as analysis of different modern approaches.</p>				
<b>Programme module type:</b>	Optional module for Ancient History Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> : 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Prof T Harrison			

AN5108 Herodotus and Early Greek Historiography				
<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 origins of history-writing in the Greek world, with especial focus on the 'father of history', Herodotus. It will attempt to place the development of historiography in its intellectual, and historical context, looking in particular at the relationship of Herodotus to his predecessors (especially Hecataeus) and contemporaries. The themes covered will include: historical methodology and the use of sources; the representation of foreign peoples and of geography; and history-writing as a source for religious and philosophical ideas.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classics, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> : 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Prof T Harrison			

AN5112 The Archaeology of the City of Rome				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will provide an introduction to the history and archaeology of the city of Rome from her earliest foundation until the Early Mediaeval period. A wide variety of forms of evidence will be examined, including literary, epigraphic and iconographic sources, alongside the results of centuries of antiquarian studies and archaeological excavation. Among the themes pursued will be Italian urbanisation, Rome as Consumer City, Rome as centre of power, and Rome as patroness of architectural and artistic culture. Individual regions of the city will be examined in detailed topographical studies, and specific buildings will be analysed in respect of their economic functions and construction.</p>				
<b>Programme module type:</b>	Optional module for Ancient History Postgraduate Taught Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Coulston			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Coulston			

AN5137 Tyranny and Kingship in the Ancient Mediterranean				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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> 1-hour tutorial (fortnightly)			
<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>	2
<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 the Ancient History Classical Studies, Greek, Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<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>	1
<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, Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly).			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr C Machado			
<b>Lecturer(s)/Tutor(s):</b>	Dr C Machado			

AN5142 Ancient Empires				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module builds on the recent resurgence of interest in empire studies and specifically in the comparative history of ancient empires. The iron age empires that developed in the two millennia after the disintegration of the bronze age system were political formations of unprecedented scale and complexity. The Neo-Assyrians, Achaemenids, Seleukids, Romans, Han, and Sasanians (to mention only the most important) projected power over vast distances and ruled over massive, dispersed and heterogeneous populations. This module is an opportunity to engage in mutually illuminating comparison of at least two of those empires, exploring themes such as modes of control and exploitation, technologies of rule, relations with local elites, resistance and rebellion and underpinning cultures of imperialism.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Lavan			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Lavan			

AN5143 Slavery in the Ancient Mediterranean				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>The institution of slavery lay at the heart of Greek and Roman society and culture.</p> <p>At the apogee of the ancient Mediterranean system in the second century AD, slaves probably accounted for more than 10% of the total population, with the richest households boasting hundreds of slaves. This course offers a holistic perspective on slavery in the ancient Mediterranean. Students will have the opportunity to explore the demography, economics and law of slavery, analyse the mechanisms of control that enabled the wealthy to maintain the subjection of so many slaves, examine philosophical debates about the ethics of mastery, and trace the ramifications of the everyday experience of living with slaves throughout ancient culture and literature.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly).			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Lavan			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Lavan			

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>Anti-requisite(s):</b>	AN5005, CL5306			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

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 module for Classical Studies, Greek & Latin, Greek, and Latin Postgraduate Programmes.			
<b>Anti-requisite(s):</b>	AN5005, CL5305			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

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 module for Ancient History, Classical Studies, Greek and Latin, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr S Lewis			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Lewis			



CL5414 Magic in the Greco-Roman World				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module will examine magic and related phenomena in the Greco-Roman world. Attention will be paid both to the fascination with magic in literature and to magical beliefs and practices in real life. The module will necessarily explore the problems of defining magic and differentiating it from religion or from other ritual practices, and will examine different ways that the problems have been tackled from antiquity to the present day. Students will study - in English translation - both literary texts and documentary and archaeological evidence.				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Anderson			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Anderson			

CL5421 Ted Hughes and the Classics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
Ted Hughes, one of the most controversial and distinctive English poets of the twentieth century, engaged with classical literature and culture in a variety of ways, at various stages in his career. This included versions of dramas by Seneca, Aeschylus and Euripides, his Tales from Ovid, appropriation of form and details from Greco-Roman mythology, laureate and elegiac poetry, and combative engagement with Socratic rationalism. This module will consider this expansive record of classical material and seek to evaluate the role of classics in Hughes's oeuvre and Hughes's place in literary reception of the classics in the second half of the twentieth century.				
<b>Programme module type:</b>	Optional module for Ancient History, Classical Studies, Greek, and Latin Postgraduate Taught Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Rees			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Rees			

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CL5422 The Expansion of the Afterlife				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>The Underworld in the sixth book of Virgil's Aeneid is infinitely more complex than that of Homeric epic. What kinds of factors contributed to such change? In this module we shall read two key epic texts, separated by some c. 800 years, namely Homer, Odyssey 11, and Virgil; Aeneid 6. We shall examine some of the intervening trends in ancient thought, from the development of 'science' with the Presocratic philosophers, through Mystery-religions, to Plato and his reception in the late Roman Republic. We shall discuss which of these trends made the greatest impact on the picture of the epic Underworld between Homer and Virgil.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Gee			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Gee			

CL5423 Philosophy in Rome				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module will explore a tradition of philosophy which has often been considered 'secondary' or 'derivative', namely the writing of philosophical works by Romans, in Rome. This module aims to evaluate this tradition in its own right. A selection of texts will be read and discussed in translation. It will be seen that, taken as a whole, the Latin philosophical corpus presents an impressive record of cultural assimilation and innovation. We shall see how, from the Late Republic onwards, Roman philosophy engages with debates current in the Hellenistic philosophical schools, Romanizing them in the process, and placing them in the context of world order under the Roman empire.</p>				
<b>Programme module type:</b>	Optional module for Ancient History, Classical Studies, Greek, and Latin Postgraduate Taught Programmes.			
<b>Anti-requisite(s):</b>	LT4214			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

CL5425 Classical Reception				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Buckley			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Buckley			

CL5429 Ethnography in Greek and Roman Culture				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>Thinking about foreign cultures was a powerful means of self-definition in Greek and Roman culture. It is also one of the richest themes in ancient literature, from the beginnings of Greek ethnography in the work of Hippocrates and Herodotus through to the vast and still underexplored body of ethnographic writing surviving from the Roman Empire and early Christian culture. This module offers an overview of that ethnographic tradition, combined with the opportunity to work in depth on particular authors and texts chosen by the student in consultation with the supervisors. Among other things it addresses questions about the way in which ethnographic writing is shaped by wider cultural and political pressures, and the way in which it is absorbed and reused within a wide range of different genres for different purposes.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof J Konig			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Konig, Prof T Harrison			

<b>CL5430 Between Causes and Kriegsschuld: The Debate about the Hannibalic War from Fabius Pictor to Appian</b>				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>The controversy about why the second war between Rome and Carthage broke out and who was responsible began during the war itself, in the historical works of Fabius Pictor, and remained a hotly debated topic for centuries, debated in the works of Greek (Polybius, Appian) and Roman (Livy) authors alike. Inevitably, the parameters of the discussion changed as pieces of information were lost, misunderstood or distorted over the centuries and as each of these authors re-interpreted the Roman past in their specific cultural, social and political contexts. In this module we will retrace the major steps of this debate by reading and discussing key passages from the works of the four authors mentioned above. Our aim is to achieve an in-depth understanding of Roman and Greek constructions of this crucial event, the interrelationship of causes and responsibility, and the ways in which historical narratives contribute to constructing different images of Roman foreign politics.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Latin and Greek and Latin Postgraduate programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr N Wiater			

## Greek and Latin 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>Anti-requisite(s):</b>	GK1005			
<b>Required for:</b>	DI2201, DI4613, DI4615, GK1002			
<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.				
<b>Programme module type:</b>	Optional for all Taught Postgraduate Programmes in the School of Classics except Greek			
<b>Anti-requisite(s):</b>	GK1006			
<b>Required for:</b>	GK2003			
<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>	TBC			
<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, 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 N Wiater			
<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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

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			
<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			



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 of Classics 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.				
<b>Programme module type:</b>	Optional for all Taught Postgraduate Programmes in the School of Classics except Latin			
<b>Anti-requisite(s):</b>	LT1004			
<b>Required for:</b>	LT2003			
<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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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 E Gee			
<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 Buckley			
<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 of Classics except Latin			
<b>Pre-requisite(s):</b>	LT1004	<b>Anti-requisite(s):</b>	LT2003	
<b>Required for:</b>	LT2002			
<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 Wiater			
<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 of Classics except Latin			
<b>Pre-requisite(s):</b>	LT2001	<b>Anti-requisite(s):</b>	LT2004	
<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 Gee			
<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 of Classics except Latin			
<b>Pre-requisite(s):</b>	LT2001	<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 of Classics 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 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> Weekly or fortnightly 2-hour seminars plus tutorials 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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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:

GK5102 Greek Tragedy and the 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 Taught 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 K Mantzouranis			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Mantzouranis			

GK5103 Comedy & Society in Classical Athens				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will study selected primary texts (Aristophanes and/or Menander) and major critical issues in the field of Classical Athenian Comedy (Old and/or New). 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 comic drama in the fifth and fourth centuries, including the relationship of comedy to the political, social and ethical values of the Athenian polis. The course will bring together close linguistic study of Greek texts and engagement with larger concerns arising from current and recent scholarship.</p>				
<b>Programme module type:</b>	Optional for Greek and Greek and Latin Postgraduate Taught 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>	Prof S Halliwell			
<b>Lecturer(s)/Tutor(s):</b>	Prof S Halliwell			

GK5105 Greek Aesthetics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module will study selected primary texts and major critical and philosophical issues in the field of Greek aesthetics, here understood pluralistically to encompass ancient writings on the theory of poetry, visual art and music, and/or on the nature of beauty. Texts will be taken from a wide range of authors and periods, stretching from archaic Greece to the Neoplatonism of late antiquity. The topics to be covered may include: Greek conceptions of 'art' in relation to later paradigms of aesthetics; theories of individual arts and their traditions; ideas of artistic representation/mimesis; competing accounts of the psychological and ethical value of poetry and other arts in education and in the culture at large. The course will bring together close linguistic study of Greek texts and engagement with larger concerns arising from current and recent scholarship.</p>				
<b>Programme module type:</b>	Optional for Greek and Greek and Latin Postgraduate Taught Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof S Halliwell			
<b>Lecturer(s)/Tutor(s):</b>	Prof S Halliwell			

## Classics - Greek MLitt & MPhil - 2016/7 - August 2016

GK5109 Greek Biography				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Biographical writing is one of the most important and abundant categories of Greek prose writing. This module offers an overview of the genre, combined with the opportunity to work in depth on particular authors and texts, chosen by the student in consultation with the supervisor. Among other things it addresses questions about the relationship between Greek biography and other genres, and about the way in which biographical writing engaged with political, philosophical and religious thinking from the classical period right into late antiquity. Possible topics include the beginnings of Greek biography in the work of Plato and Xenophon, especially their Socratic writings and the Cyropaedia, the biographical writing of the Roman Empire, including works by Plutarch, Lucian and Philostratus and their relationship with Latin biography, and Christian biographical traditions from the gospels to the early saints' lives.</p>				
<b>Programme module type:</b>	Optional for Greek, Greek and Latin and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof J Konig			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Konig			

GK5110 Aesthetics and Truth in Hellenistic Historical Writing				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>History-writing has never been the simple recording of events. Writing history is an art-form, a complex discourse in which source material is integrated with an author's concept of truth and of how to best represent that truth in textual form. When Thucydides, for example, wrote himself "out of" his narrative to make it look like the facts were "speaking for themselves", he made an aesthetic choice, preferring a minimalist approach to authorial intervention and conventional stylistic ornament (the famous lack of 'the legendary') to other modes of narration. These choices become more pronounced as literary theory and historiography grow in complexity and start cross-influencing each other in the Hellenistic period.</p> <p>In this module we will read and discuss passages that illustrate the complex interrelation of narrative, aesthetics and truth, including such controversial issues as the influence of tragedy on historiography; emotions and historical understanding; and mimesis and realism.</p>				
<b>Programme module type:</b>	Optional for Greek, Latin and Greek and Latin Postgraduate programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr N Waiter			
<b>Lecturer(s)/Tutor(s):</b>	Dr N Waiter			



AN5101 Greek and Roman Warfare				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module studies the literary, iconographic and archaeological evidence for warfare in the Greek and Roman world. Various aspects will be highlighted, in particular the social and economic implications of war for ruling elites, for urbanisation and for ancient technology. It will approach the subject from a broad chronological perspective stretching from the Archaic to the Late Roman periods, thus allowing long-term trends and developments to be followed through, such as the role and influence of mercenaries, the rise of military professionalism (with its impacts on art and literature) and the presentation of military status within societies.</p>				
<b>Programme module type:</b>	Optional for Ancient History Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Coulston			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Coulston			

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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Anderson			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Anderson			

## Classics - Greek MLitt & MPhil - 2016/7 - August 2016

AN5105 The Achaemenid Persian Empire				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module introduces students to the history (and historiography) of one of the first world empires, that of the Achaemenid Persians. The module will cover the broad history of the Persian empire from its foundation by Cyrus the Great through to its destruction at the hands of Alexander the Great, but will also include discussion of a number of key themes, including Persian imperial ideology, the role of women in the imperial court, and the ways in which the ancient Persian past has been deployed in more recent history. A central focus throughout will be on the close reading of a range of ancient sources (Persian, Greek, Egyptian, and Babylonian) as well as analysis of different modern approaches.</p>				
<b>Programme module type:</b>	Optional module for Ancient History Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> : 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Prof T Harrison			

AN5108 Herodotus and Early Greek Historiography				
<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 origins of history-writing in the Greek world, with especial focus on the 'father of history', Herodotus. It will attempt to place the development of historiography in its intellectual, and historical context, looking in particular at the relationship of Herodotus to his predecessors (especially Hecataeus) and contemporaries. The themes covered will include: historical methodology and the use of sources; the representation of foreign peoples and of geography; and history-writing as a source for religious and philosophical ideas.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classics, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> : 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Prof T Harrison			

AN5112 The Archaeology of the City of Rome				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will provide an introduction to the history and archaeology of the city of Rome from her earliest foundation until the Early Mediaeval period. A wide variety of forms of evidence will be examined, including literary, epigraphic and iconographic sources, alongside the results of centuries of antiquarian studies and archaeological excavation. Among the themes pursued will be Italian urbanisation, Rome as Consumer City, Rome as centre of power, and Rome as patroness of architectural and artistic culture. Individual regions of the city will be examined in detailed topographical studies, and specific buildings will be analysed in respect of their economic functions and construction.</p>				
<b>Programme module type:</b>	Optional module for Ancient History Postgraduate Taught Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Coulston			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Coulston			

AN5137 Tyranny and Kingship in the Ancient Mediterranean				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr S Lewis			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Lewis			

## Classics - Greek MLitt & MPhil - 2016/7 - August 2016

AN5140 Religion and Society in the Roman Empire				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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 the Ancient History Classical Studies, Greek, Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<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>	1
<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, Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly).			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr C Machado			
<b>Lecturer(s)/Tutor(s):</b>	Dr C Machado			

AN5142 Ancient Empires				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module builds on the recent resurgence of interest in empire studies and specifically in the comparative history of ancient empires. The iron age empires that developed in the two millennia after the disintegration of the bronze age system were political formations of unprecedented scale and complexity. The Neo-Assyrians, Achaemenids, Seleukids, Romans, Han, and Sasanians (to mention only the most important) projected power over vast distances and ruled over massive, dispersed and heterogeneous populations. This module is an opportunity to engage in mutually illuminating comparison of at least two of those empires, exploring themes such as modes of control and exploitation, technologies of rule, relations with local elites, resistance and rebellion and underpinning cultures of imperialism.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Lavan			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Lavan			

AN5143 Slavery in the Ancient Mediterranean				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>The institution of slavery lay at the heart of Greek and Roman society and culture. At the apogee of the ancient Mediterranean system in the second century AD, slaves probably accounted for more than 10% of the total population, with the richest households boasting hundreds of slaves. This course offers a holistic perspective on slavery in the ancient Mediterranean. Students will have the opportunity to explore the demography, economics and law of slavery, analyse the mechanisms of control that enabled the wealthy to maintain the subjection of so many slaves, examine philosophical debates about the ethics of mastery, and trace the ramifications of the everyday experience of living with slaves throughout ancient culture and literature.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly).			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Lavan			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Lavan			

## Classics - Greek MLitt & MPhil - 2016/7 - August 2016

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>Anti-requisite(s):</b>	AN5005, CL5306			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

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 module for Classical Studies, Greek & Latin, Greek, and Latin Postgraduate Programmes.			
<b>Anti-requisite(s):</b>	AN5005, CL5305			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

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 module for Ancient History, Classical Studies, Greek and Latin, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr S Lewis			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Lewis			

CL5414 Magic in the Greco-Roman World				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module will examine magic and related phenomena in the Greco-Roman world. Attention will be paid both to the fascination with magic in literature and to magical beliefs and practices in real life. The module will necessarily explore the problems of defining magic and differentiating it from religion or from other ritual practices, and will examine different ways that the problems have been tackled from antiquity to the present day. Students will study - in English translation - both literary texts and documentary and archaeological evidence.				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Anderson			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Anderson			

## Classics - Greek MLitt & MPhil - 2016/7 - August 2016

CL5421 Ted Hughes and the Classics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Ted Hughes, one of the most controversial and distinctive English poets of the twentieth century, engaged with classical literature and culture in a variety of ways, at various stages in his career. This included versions of dramas by Seneca, Aeschylus and Euripides, his Tales from Ovid, appropriation of form and details from Greco-Roman mythology, laureate and elegiac poetry, and combative engagement with Socratic rationalism. This module will consider this expansive record of classical material and seek to evaluate the role of classics in Hughes's oeuvre and Hughes's place in literary reception of the classics in the second half of the twentieth century.</p>				
<b>Programme module type:</b>	Optional module for Ancient History, Classical Studies, Greek, and Latin Postgraduate Taught Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Rees			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Rees			

CL5422 The Expansion of the Afterlife				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>The Underworld in the sixth book of Virgil's Aeneid is infinitely more complex than that of Homeric epic. What kinds of factors contributed to such change? In this module we shall read two key epic texts, separated by some c. 800 years, namely Homer, Odyssey 11, and Virgil; Aeneid 6. We shall examine some of the intervening trends in ancient thought, from the development of 'science' with the Presocratic philosophers, through Mystery-religions, to Plato and his reception in the late Roman Republic. We shall discuss which of these trends made the greatest impact on the picture of the epic Underworld between Homer and Virgil.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Gee			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Gee			



CL5423 Philosophy in Rome				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module will explore a tradition of philosophy which has often been considered 'secondary' or 'derivative', namely the writing of philosophical works by Romans, in Rome. This module aims to evaluate this tradition in its own right. A selection of texts will be read and discussed in translation. It will be seen that, taken as a whole, the Latin philosophical corpus presents an impressive record of cultural assimilation and innovation. We shall see how, from the Late Republic onwards, Roman philosophy engages with debates current in the Hellenistic philosophical schools, Romanizing them in the process, and placing them in the context of world order under the Roman empire.</p>				
<b>Programme module type:</b>	Optional module for Ancient History, Classical Studies, Greek, and Latin Postgraduate Taught Programmes.			
<b>Anti-requisite(s):</b>	LT4214			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

CL5425 Classical Reception				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Buckley			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Buckley			

## Classics - Greek MLitt & MPhil - 2016/7 - August 2016

CL5429 Ethnography in Greek and Roman Culture				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
Thinking about foreign cultures was a powerful means of self-definition in Greek and Roman culture. It is also one of the richest themes in ancient literature, from the beginnings of Greek ethnography in the work of Hippocrates and Herodotus through to the vast and still underexplored body of ethnographic writing surviving from the Roman Empire and early Christian culture. This module offers an overview of that ethnographic tradition, combined with the opportunity to work in depth on particular authors and texts chosen by the student in consultation with the supervisors. Among other things it addresses questions about the way in which ethnographic writing is shaped by wider cultural and political pressures, and the way in which it is absorbed and reused within a wide range of different genres for different purposes.				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof J Konig			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Konig, Prof T Harrison			

CL5430 Between Causes and Kriegsschuld: The Debate about the Hannibalic War from Fabius Pictor to Appian				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
The controversy about why the second war between Rome and Carthage broke out and who was responsible began during the war itself, in the historical works of Fabius Pictor, and remained a hotly debated topic for centuries, debated in the works of Greek (Polybius, Appian) and Roman (Livy) authors alike. Inevitably, the parameters of the discussion changed as pieces of information were lost, misunderstood or distorted over the centuries and as each of these authors re-interpreted the Roman past in their specific cultural, social and political contexts. In this module we will retrace the major steps of this debate by reading and discussing key passages from the works of the four authors mentioned above. Our aim is to achieve an in-depth understanding of Roman and Greek constructions of this crucial event, the interrelationship of causes and responsibility, and the ways in which historical narratives contribute to constructing different images of Roman foreign politics.				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Latin and Greek and Latin Postgraduate programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr N Wiater			

## Latin 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			
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 of Classics 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>	<b>2-hour Written Examination = 50%, Coursework = 50% (4 class tests)</b>			
<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.				
<b>Programme module type:</b>	Optional for all Taught Postgraduate Programmes in the School of Classics except Latin			
<b>Anti-requisite(s):</b>	LT1004			
<b>Required for:</b>	LT2003			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 4 classes.			
<b>Assessment pattern:</b>	<b>2-hour Written Examination = 50%, Coursework = 50% (4 class tests)</b>			
<b>Module Co-ordinator:</b>	Dr J Coderch			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Coderch			



## Masters in Greek and Latin

### Programme Requirements

**Postgraduate Diploma:** (*this is also the Taught Element of the MLitt and M.Phil 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
- 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 the beginners' language modules: {GK1005 and GK1006}, {GK2001 and GK2002}, {GK2003 and GK2004}, {LT1003 and LT1004}, {LT2001 and LT2002}, {LT2003 and LT2004}.

**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> Weekly or fortnightly 2-hour seminars plus tutorials 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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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>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Individual supervisors assigned as required			

### Optional modules:

GK5102 Greek Tragedy and the 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 Taught 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 K Mantzouranis			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Mantzouranis			

GK5103 Comedy & Society in Classical Athens				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will study selected primary texts (Aristophanes and/or Menander) and major critical issues in the field of Classical Athenian Comedy (Old and/or New). 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 comic drama in the fifth and fourth centuries, including the relationship of comedy to the political, social and ethical values of the Athenian polis. The course will bring together close linguistic study of Greek texts and engagement with larger concerns arising from current and recent scholarship.</p>				
<b>Programme module type:</b>	Optional for Greek and Greek and Latin Postgraduate Taught 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>	Prof S Halliwell			
<b>Lecturer(s)/Tutor(s):</b>	Prof S Halliwell			

GK5105 Greek Aesthetics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module will study selected primary texts and major critical and philosophical issues in the field of Greek aesthetics, here understood pluralistically to encompass ancient writings on the theory of poetry, visual art and music, and/or on the nature of beauty. Texts will be taken from a wide range of authors and periods, stretching from archaic Greece to the Neoplatonism of late antiquity. The topics to be covered may include: Greek conceptions of 'art' in relation to later paradigms of aesthetics; theories of individual arts and their traditions; ideas of artistic representation/mimesis; competing accounts of the psychological and ethical value of poetry and other arts in education and in the culture at large. The course will bring together close linguistic study of Greek texts and engagement with larger concerns arising from current and recent scholarship.</p>				
<b>Programme module type:</b>	Optional for Greek and Greek and Latin Postgraduate Taught Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof S Halliwell			
<b>Lecturer(s)/Tutor(s):</b>	Prof S Halliwell			

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GK5109 Greek Biography				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Biographical writing is one of the most important and abundant categories of Greek prose writing. This module offers an overview of the genre, combined with the opportunity to work in depth on particular authors and texts, chosen by the student in consultation with the supervisor. Among other things it addresses questions about the relationship between Greek biography and other genres, and about the way in which biographical writing engaged with political, philosophical and religious thinking from the classical period right into late antiquity. Possible topics include the beginnings of Greek biography in the work of Plato and Xenophon, especially their Socratic writings and the Cyropaedia, the biographical writing of the Roman Empire, including works by Plutarch, Lucian and Philostratus and their relationship with Latin biography, and Christian biographical traditions from the gospels to the early saints' lives.</p>				
<b>Programme module type:</b>	Optional for Greek, Greek and Latin and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof J Konig			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Konig			

GK5110 Aesthetics and Truth in Hellenistic Historical Writing				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>History-writing has never been the simple recording of events. Writing history is an art-form, a complex discourse in which source material is integrated with an author's concept of truth and of how to best represent that truth in textual form. When Thucydides, for example, wrote himself "out of" his narrative to make it look like the facts were "speaking for themselves", he made an aesthetic choice, preferring a minimalist approach to authorial intervention and conventional stylistic ornament (the famous lack of 'the legendary') to other modes of narration. These choices become more pronounced as literary theory and historiography grow in complexity and start cross-influencing each other in the Hellenistic period.</p> <p>In this module we will read and discuss passages that illustrate the complex interrelation of narrative, aesthetics and truth, including such controversial issues as the influence of tragedy on historiography; emotions and historical understanding; and mimesis and realism.</p>				
<b>Programme module type:</b>	Optional for Greek, Latin and Greek and Latin Postgraduate programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr N Waiter			
<b>Lecturer(s)/Tutor(s):</b>	Dr N Waiter			



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<b>LT5005 Late Imperial Literature</b>				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module aims to give an introduction to later Latin literature through a study of some of its central texts, chosen in consultation between student and supervisor. Other works and writers will be introduced as relevant. Students will be invited to consider both the classical tradition behind these works and their importance for later mediaeval literature and thought.				
<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>	<b>Coursework = 100 %</b>			
<b>Module Co-ordinator:</b>	Dr R Rees			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Rees			

<b>LT5016 Latin Didactic Poetry</b>				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<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 poets 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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Gee			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Gee			

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LT5018 Literature in the Reign of Nero				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module studies literature written during the reign of the emperor Nero (54-68 CE), when there was a renaissance in Latin writing that produced, among other works, philosophical and other writings of the younger Seneca, the satires of Persius, the epic of Lucan, and the novel of Petronius. Students will study selected works of literature from the period, and explore the social, political, artistic and cultural context in which they were written, and the continuities and discontinuities between literature under Nero and under the preceding emperors.</p>				
<b>Programme module type:</b>	Optional for Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Dr E Buckley			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Buckley			

LT5022 Latin Literary Interactivity				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Intertextuality has been a key feature of Latin literary studies over the last few decades. This module will look back at the ways in which the study of intertextuality has changed perceptions of individual texts, whole genres and Latin literary culture generally; and it will look forward, at the new directions in which this field is now going. It will probe the metaphors we currently use to talk about instances of allusion, echo, correspondence, rewriting, even occlusion, and ask whether methodologies of reading developed for Augustan poetry are helpful when analysing the interactive dimensions of other kinds of text (including prose) written in other eras. It will also push at the boundaries of intertextuality studies by considering the relationship - or interface - between literary and social kinds of interaction, on and off the page. We will think about ancient approaches to literary production and consumption, as well as modern reading habits; and we anchor our discussions of different kinds of literary interactivity in close readings of a series of Latin texts (e.g. works by Horace, Ovid, Statius, Pliny the Younger and Juvenal) that will take us from the late Republic through to the second century CE.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Pre-requisite(s):</b>	Knowledge of Latin is essential.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A König			
<b>Lecturer(s)/Tutor(s):</b>	Dr A König			

## Greek and Latin 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>Anti-requisite(s):</b>	GK1005			
<b>Required for:</b>	DI2201, DI4613, DI4615, GK1002			
<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.				
<b>Programme module type:</b>	Optional for all Taught Postgraduate Programmes in the School of Classics except Greek			
<b>Anti-requisite(s):</b>	GK1006			
<b>Required for:</b>	GK2003			
<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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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		
<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		

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>	TBC			
<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, 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 N Wiater			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

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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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

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			
<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			

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 of Classics 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.				
<b>Programme module type:</b>	Optional for all Taught Postgraduate Programmes in the School of Classics except Latin			
<b>Anti-requisite(s):</b>	LT1004			
<b>Required for:</b>	LT2003			
<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 and Latin MLitt & MPhil - 2016/7 - August 2016

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 E Gee			
<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 Buckley			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			



**Classics - Greek and Latin MLitt & MPhil - 2016/7 - August 2016**

<b>LT2001 Latin Language and Literature 1</b>				
<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 of Classics except Latin			
<b>Pre-requisite(s):</b>	LT1004	<b>Anti-requisite(s):</b>	LT2003	
<b>Required for:</b>	LT2002			
<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 Wiater			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

<b>LT2002 Latin Language and Literature 2</b>				
<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 of Classics except Latin			
<b>Pre-requisite(s):</b>	LT2001	<b>Anti-requisite(s):</b>	LT2004	
<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 Gee			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

## Classics - Greek and Latin MLitt & MPhil - 2016/7 - August 2016

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 of Classics except Latin			
<b>Pre-requisite(s):</b>	LT2001	<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 of Classics 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 Latin

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

60 credits: CL5201

30 credits: LT5001 - LT5098

Either: 30 credits: LT5001 - LT5098, CL5301 - CL5499, AN5101 - AN5199.

Or: \*40 credits: GK1001 and GK1002.

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.

*\*Students taking beginners' language options must achieve EITHER an average of 12 or more in the two modules OR 12 or more in the semester 2 module (LT1002 or GK1002).*

### 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> Weekly or fortnightly 2-hour seminars plus tutorials 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 - Latin - MLitt & MPhil - 2016/7 - August 2016

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:

LT5005 Late Imperial Literature				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module aims to give an introduction to later Latin literature through a study of some of its central texts, chosen in consultation between student and supervisor. Other works and writers will be introduced as relevant. Students will be invited to consider both the classical tradition behind these works and their importance for later mediaeval literature and thought.				
<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>	<b>Coursework = 100 %</b>			
<b>Module Co-ordinator:</b>	Dr R Rees			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Rees			

LT5016 Latin Didactic Poetry				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<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 poets 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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Gee			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Gee			

LT5018 Literature in the Reign of Nero				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module studies literature written during the reign of the emperor Nero (54-68 CE), when there was a renaissance in Latin writing that produced, among other works, philosophical and other writings of the younger Seneca, the satires of Persius, the epic of Lucan, and the novel of Petronius. Students will study selected works of literature from the period, and explore the social, political, artistic and cultural context in which they were written, and the continuities and discontinuities between literature under Nero and under the preceding emperors.</p>				
<b>Programme module type:</b>	Optional for Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Dr E Buckley			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Buckley			

LT5022 Latin Literary Interactivity				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Intertextuality has been a key feature of Latin literary studies over the last few decades. This module will look back at the ways in which the study of intertextuality has changed perceptions of individual texts, whole genres and Latin literary culture generally; and it will look forward, at the new directions in which this field is now going. It will probe the metaphors we currently use to talk about instances of allusion, echo, correspondence, rewriting, even occlusion, and ask whether methodologies of reading developed for Augustan poetry are helpful when analysing the interactive dimensions of other kinds of text (including prose) written in other eras. It will also push at the boundaries of intertextuality studies by considering the relationship - or interface - between literary and social kinds of interaction, on and off the page. We will think about ancient approaches to literary production and consumption, as well as modern reading habits; and we anchor our discussions of different kinds of literary interactivity in close readings of a series of Latin texts (e.g. works by Horace, Ovid, Statius, Pliny the Younger and Juvenal) that will take us from the late Republic through to the second century CE.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Pre-requisite(s):</b>	Knowledge of Latin is essential.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A König			
<b>Lecturer(s)/Tutor(s):</b>	Dr A König			

AN5101 Greek and Roman Warfare				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module studies the literary, iconographic and archaeological evidence for warfare in the Greek and Roman world. Various aspects will be highlighted, in particular the social and economic implications of war for ruling elites, for urbanisation and for ancient technology. It will approach the subject from a broad chronological perspective stretching from the Archaic to the Late Roman periods, thus allowing long-term trends and developments to be followed through, such as the role and influence of mercenaries, the rise of military professionalism (with its impacts on art and literature) and the presentation of military status within societies.</p>				
<b>Programme module type:</b>	Optional for Ancient History Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Coulston			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Coulston			

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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Anderson			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Anderson			

AN5105 The Achaemenid Persian Empire				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module introduces students to the history (and historiography) of one of the first world empires, that of the Achaemenid Persians. The module will cover the broad history of the Persian empire from its foundation by Cyrus the Great through to its destruction at the hands of Alexander the Great, but will also include discussion of a number of key themes, including Persian imperial ideology, the role of women in the imperial court, and the ways in which the ancient Persian past has been deployed in more recent history. A central focus throughout will be on the close reading of a range of ancient sources (Persian, Greek, Egyptian, and Babylonian) as well as analysis of different modern approaches.</p>				
<b>Programme module type:</b>	Optional module for Ancient History Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> : 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Prof T Harrison			

AN5108 Herodotus and Early Greek Historiography				
<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 origins of history-writing in the Greek world, with especial focus on the 'father of history', Herodotus. It will attempt to place the development of historiography in its intellectual, and historical context, looking in particular at the relationship of Herodotus to his predecessors (especially Hecataeus) and contemporaries. The themes covered will include: historical methodology and the use of sources; the representation of foreign peoples and of geography; and history-writing as a source for religious and philosophical ideas.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classics, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> : 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof T Harrison			
<b>Lecturer(s)/Tutor(s):</b>	Prof T Harrison			

AN5112 The Archaeology of the City of Rome				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will provide an introduction to the history and archaeology of the city of Rome from her earliest foundation until the Early Mediaeval period. A wide variety of forms of evidence will be examined, including literary, epigraphic and iconographic sources, alongside the results of centuries of antiquarian studies and archaeological excavation. Among the themes pursued will be Italian urbanisation, Rome as Consumer City, Rome as centre of power, and Rome as patroness of architectural and artistic culture. Individual regions of the city will be examined in detailed topographical studies, and specific buildings will be analysed in respect of their economic functions and construction.</p>				
<b>Programme module type:</b>	Optional module for Ancient History Postgraduate Taught Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Coulston			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Coulston			

AN5137 Tyranny and Kingship in the Ancient Mediterranean				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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> 1-hour tutorial (fortnightly)			
<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>	2
<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 the Ancient History Classical Studies, Greek, Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<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>	1
<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, Latin and Greek and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly).			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr C Machado			
<b>Lecturer(s)/Tutor(s):</b>	Dr C Machado			

## Classics - Latin - MLitt & MPhil - 2016/7 - August 2016

AN5142 Ancient Empires				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module builds on the recent resurgence of interest in empire studies and specifically in the comparative history of ancient empires. The iron age empires that developed in the two millennia after the disintegration of the bronze age system were political formations of unprecedented scale and complexity. The Neo-Assyrians, Achaemenids, Seleukids, Romans, Han, and Sasanians (to mention only the most important) projected power over vast distances and ruled over massive, dispersed and heterogeneous populations. This module is an opportunity to engage in mutually illuminating comparison of at least two of those empires, exploring themes such as modes of control and exploitation, technologies of rule, relations with local elites, resistance and rebellion and underpinning cultures of imperialism.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Lavan			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Lavan			

AN5143 Slavery in the Ancient Mediterranean				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>The institution of slavery lay at the heart of Greek and Roman society and culture. At the apogee of the ancient Mediterranean system in the second century AD, slaves probably accounted for more than 10% of the total population, with the richest households boasting hundreds of slaves. This course offers a holistic perspective on slavery in the ancient Mediterranean. Students will have the opportunity to explore the demography, economics and law of slavery, analyse the mechanisms of control that enabled the wealthy to maintain the subjection of so many slaves, examine philosophical debates about the ethics of mastery, and trace the ramifications of the everyday experience of living with slaves throughout ancient culture and literature.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly).			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Lavan			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Lavan			

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>Anti-requisite(s):</b>	AN5005, CL5306			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

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 module for Classical Studies, Greek & Latin, Greek, and Latin Postgraduate Programmes.			
<b>Anti-requisite(s):</b>	AN5005, CL5305			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

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 module for Ancient History, Classical Studies, Greek and Latin, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr S Lewis			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Lewis			

CL5414 Magic in the Greco-Roman 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 magic and related phenomena in the Greco-Roman world. Attention will be paid both to the fascination with magic in literature and to magical beliefs and practices in real life. The module will necessarily explore the problems of defining magic and differentiating it from religion or from other ritual practices, and will examine different ways that the problems have been tackled from antiquity to the present day. Students will study - in English translation - both literary texts and documentary and archaeological evidence.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Anderson			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Anderson			

CL5421 Ted Hughes and the Classics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Ted Hughes, one of the most controversial and distinctive English poets of the twentieth century, engaged with classical literature and culture in a variety of ways, at various stages in his career. This included versions of dramas by Seneca, Aeschylus and Euripides, his Tales from Ovid, appropriation of form and details from Greco-Roman mythology, laureate and elegiac poetry, and combative engagement with Socratic rationalism. This module will consider this expansive record of classical material and seek to evaluate the role of classics in Hughes's oeuvre and Hughes's place in literary reception of the classics in the second half of the twentieth century.</p>				
<b>Programme module type:</b>	Optional module for Ancient History, Classical Studies, Greek, and Latin Postgraduate Taught Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Rees			
<b>Lecturer(s)/Tutor(s):</b>	Dr R Rees			

CL5422 The Expansion of the Afterlife				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>The Underworld in the sixth book of Virgil's Aeneid is infinitely more complex than that of Homeric epic. What kinds of factors contributed to such change? In this module we shall read two key epic texts, separated by some c. 800 years, namely Homer, Odyssey 11, and Virgil; Aeneid 6. We shall examine some of the intervening trends in ancient thought, from the development of 'science' with the Presocratic philosophers, through Mystery-religions, to Plato and his reception in the late Roman Republic. We shall discuss which of these trends made the greatest impact on the picture of the epic Underworld between Homer and Virgil.</p>				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, and Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Gee			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Gee			

CL5423 Philosophy in Rome				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module will explore a tradition of philosophy which has often been considered 'secondary' or 'derivative', namely the writing of philosophical works by Romans, in Rome. This module aims to evaluate this tradition in its own right. A selection of texts will be read and discussed in translation. It will be seen that, taken as a whole, the Latin philosophical corpus presents an impressive record of cultural assimilation and innovation. We shall see how, from the Late Republic onwards, Roman philosophy engages with debates current in the Hellenistic philosophical schools, Romanizing them in the process, and placing them in the context of world order under the Roman empire.</p>				
<b>Programme module type:</b>	Optional module for Ancient History, Classical Studies, Greek, and Latin Postgraduate Taught Programmes.			
<b>Anti-requisite(s):</b>	LT4214			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Long			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Long			

CL5425 Classical Reception				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Buckley			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Buckley			

<b>CL5429 Ethnography in Greek and Roman Culture</b>				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
Thinking about foreign cultures was a powerful means of self-definition in Greek and Roman culture. It is also one of the richest themes in ancient literature, from the beginnings of Greek ethnography in the work of Hippocrates and Herodotus through to the vast and still underexplored body of ethnographic writing surviving from the Roman Empire and early Christian culture. This module offers an overview of that ethnographic tradition, combined with the opportunity to work in depth on particular authors and texts chosen by the student in consultation with the supervisors. Among other things it addresses questions about the way in which ethnographic writing is shaped by wider cultural and political pressures, and the way in which it is absorbed and reused within a wide range of different genres for different purposes.				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Greek and Latin, Latin Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof J Konig			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Konig, Prof T Harrison			

<b>CL5430 Between Causes and Kriegsschuld: The Debate about the Hannibalic War from Fabius Pictor to Appian</b>				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
The controversy about why the second war between Rome and Carthage broke out and who was responsible began during the war itself, in the historical works of Fabius Pictor, and remained a hotly debated topic for centuries, debated in the works of Greek (Polybius, Appian) and Roman (Livy) authors alike. Inevitably, the parameters of the discussion changed as pieces of information were lost, misunderstood or distorted over the centuries and as each of these authors re-interpreted the Roman past in their specific cultural, social and political contexts. In this module we will retrace the major steps of this debate by reading and discussing key passages from the works of the four authors mentioned above. Our aim is to achieve an in-depth understanding of Roman and Greek constructions of this crucial event, the interrelationship of causes and responsibility, and the ways in which historical narratives contribute to constructing different images of Roman foreign politics.				
<b>Programme module type:</b>	Optional for Ancient History, Classical Studies, Greek, Latin and Greek and Latin Postgraduate programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr N Wiater			

## Greek 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>Anti-requisite(s):</b>	GK1005			
<b>Required for:</b>	DI2201, DI4613, DI4615, GK1002			
<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.				
<b>Programme module type:</b>	Optional for all Taught Postgraduate Programmes in the School of Classics except Greek			
<b>Anti-requisite(s):</b>	GK1006			
<b>Required for:</b>	GK2003			
<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			



## 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](#))

**Data-Intensive Analysis** ([link](#))

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

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

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

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

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

#### MSc:

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

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

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

**Data-Intensive Analysis** ([link](#))

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

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

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

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

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

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

#### MPhil:

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

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

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

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

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

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

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

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

**DEng:**

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

**Computer Science - Optional modules** ([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			

## Computer Science - Advanced Computer Science MSc & MPhil - 2016/7 - August 2016

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. Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programme. 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			

### For the 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 Data-Intensive Analysis, 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 and permission of the Head of School	<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			

Up to two from:

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			

## Computer Science - Advanced Computer Science MSc & MPhil - 2016/7 - August 2016

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 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>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>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			

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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 modern 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			



## 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. Optional for Advanced Computer Science, Artificial Intelligence, Data-Intensive Analysis, Dependable Software Information Technology, Human Computer Interaction MSc Programmes, DEng in Computer Science		
<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		

Further optional modules are available - see the pdf online called '[PG Computer Science - optional modules 2016 - 2017.](#)'



## 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. 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. 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			

EITHER

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. 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			

OR

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. Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme			
<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. Optional for Advanced Computer Science, Artificial Intelligence, Data-Intensive Analysis, Dependable Software Information Technology, Human Computer Interaction MSc Programmes			
<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 whose circumstances make it 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			

[Further optional modules are available - see the pdf online called 'PG Computer Science - optional modules 2016 - 2017.'](#)





## 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.				
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

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. Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programme. 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. 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. Optional for Advanced Computer Science, Artificial Intelligence, Data-Intensive Analysis, Dependable Software Information Technology, Human Computer Interaction MSc Programmes			
<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			

## Computer Science - Computing and Information Technology MSc & MPhil - 2016/7 - August 2016

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-is-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-is-coord-cs@st-andrews.ac.uk			

[Further optional modules are available - see the pdf online called 'PG Computer Science - optional modules 2016 - 2017.'](#)



## Masters in Data-Intensive Analysis

### Programme Requirements

*Taught Element, and PG Diploma in Data-Intensive Analysis:*

120 credits:

- MT4113
- MT5753
- MT5756
- MT5757
- ID5059
- up to 30 credits from CS5001, CS5002, CS5003, CS5044, CS5052

**MSc:**

120 credits from Taught Element plus CS5099 or MT5099

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

### Compulsory modules:

MT4113 Computing in Statistics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 10	<b>Semester:</b>	1
<b>Planned timetable:</b>	12.00 noon Mon (odd weeks) and Wed, 12.00 noon –2.00 pm Fri			
The aim of this module is to teach computer programming skills, including principles of good programming practice, with an emphasis on statistical computing. Practical work focusses on the widely-used statistical language and environment R. Practical skills are developed through a series of computing exercises that include (1) modular programming; (2) manipulating data; (3) simulating data with specific statistical properties, (4) investigating behaviour of statistical procedures under failure of statistical assumptions.				
<b>Programme module type:</b>	Compulsory for Data-Intensive Analysis MSc programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour lectures (x 10 weeks), 2-hour practical classes (x 10 weeks)			
<b>Assessment pattern:</b>	Written Examination = 40% (2 x 50-minute class tests), Coursework = 60%			
<b>Module Co-ordinator:</b>	Dr E Rexstad			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Rexstad, Dr L Thomas			

## Computer Science - Data-Intensive Analysis MSc - 2016/7 - August 2016

MT5753 Statistical Modelling				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	2.00 pm			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining MSc Programme. Compulsory for Data-Intensive Analysis MSc Programme. Optional for Statistics MSc Programme.			
<b>Anti-requisite(s):</b>	MT4607	<b>Required for:</b>	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 5 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, TBC			

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. Compulsory for Data-Intensive Analysis MSc Programme.			
<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			



## Computer Science - Data-Intensive Analysis MSc - 2016/7 - August 2016

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; LASSO and the Elastic Net; 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 R and the commercial packages SAS.</p>				
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining MSc Programme. Compulsory for Data-Intensive Analysis MSc Programme. 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, Dr H Worthington			

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. Compulsory for Data-Intensive Analysis MSc Programme. 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>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:

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 Data-Intensive Analysis, 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 and permission of the Head of School	<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			

OR

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. Optional for Data-Intensive Analysis MSc 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 J D Mitchell			

## 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. Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programmes. Optional for Data-Intensive Analysis or Management and Information Technology 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			

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 CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programmes. Optional for Data-Intensive Analysis or Management and Information Technology Postgraduate Programmes.			
<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. Optional for Advanced Computer Science, Artificial Intelligence, Data-Intensive Analysis, Dependable Software Information Technology, Human Computer Interaction MSc Programmes, DEEng in Computer Science			
<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			

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. 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			
<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			

**Computer Science - Data-Intensive Analysis MSc - 2016/7 - August 2016**

<b>CS5052 Data-Intensive Systems</b>				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	Mon, Tue (time to be confirmed)			
<p>The era of big data is upon us - the volume, velocity and variety of enterprise and scientific data are growing at an exponential rate and will continue to do so for the foreseeable future. This module presents the programming paradigms, algorithmic techniques and design principles for large-scale distributed systems, such as those utilised by companies such as Google, Amazon and Facebook. This module is different in scope from CS4103 (distributed systems) as it focuses primarily on building and utilising large-scale clusters.</p> <p>The module will cover: distributed systems architecture, replication and fault tolerance, storage, coordination, scheduling algorithms, cluster computing, cloud computing, virtualisation, programming models (e.g., MapReduce), stream processing, decentralised systems (e.g., Chord), incentive-based systems (e.g., BitTorrent), and social computing (e.g., crowd sourcing techniques). This module will draw from the latest research in both academia and industry.</p>				
<b>Programme module type:</b>	Optional for Data-Intensive Analysis MSc Programme. Optional for Networks and Distributed Systems MSc			
<b>Pre-requisite(s):</b>	CS5001			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 3 hours of lectures (x 11 weeks), 1-hour seminar (x 4 weeks), 1-hour practical class (x 3 weeks)			
<b>Assessment pattern:</b>	2-hour Written Examination = 60%, Coursework = 40%			
<b>Module Co-ordinator:</b>	Dr A Barker			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Barker			



## 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.			
<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.			
<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			

## EITHER

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			

OR

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			

Up to two from:

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			

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 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>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 - 2016/7 - August 2016

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>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 modern 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			

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. Optional for Advanced Computer Science, Artificial Intelligence, Data-Intensive Analysis, Dependable Software Information Technology, Human Computer Interaction MSc Programmes		
<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		

**[Further optional modules are available - see the pdf online called 'PG Computer Science - optional modules 2016 - 2017.'](#)**





## 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-is-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-is-coord-cs@st-andrews.ac.uk			

Optional modules:

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.			
<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.			
<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>	2
<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 Taught Postgraduate Programmes.			
<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>	1
<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.			
<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.			
<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.			
<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%			

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. Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programmes. Optional for Data-Intensive Analysis or Management and Information Technology 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			

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 CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programmes. Optional for Data-Intensive Analysis or Management and Information Technology Postgraduate Programmes.			
<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. Optional for Data-Intensive Analysis MSc Programme and Information Technology MSc 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. 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. Optional for other Postgraduate Programmes.			
<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. Optional for 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 = 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. Optional for other Postgraduate Programmes.			
<b>Pre-requisite(s):</b>	-	<b>Anti-requisite(s):</b>	CS3102	
<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 other Postgraduate Programmes in the School of Computer Science			
<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.			
<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. Optional for other Postgraduate Programmes.			
<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 Optional for all other Postgraduate Programmes in the School of Computer Science			
<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			

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			
<b>Anti-requisite(s):</b>	CS3106			
<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			
<b>Co-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			
<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			

## Computer Science - Information Technology MSc& MPhil - 2016/7 - August 2016

CS5052 Data-Intensive Systems				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
<p>The era of big data is upon us - the volume, velocity and variety of enterprise and scientific data are growing at an exponential rate and will continue to do so for the foreseeable future. This module presents the programming paradigms, algorithmic techniques and design principles for large-scale distributed systems, such as those utilised by companies such as Google, Amazon and Facebook. This module is different in scope from CS4103 (distributed systems) as it focuses primarily on building and utilising large-scale clusters.</p> <p>The module will cover: distributed systems architecture, replication and fault tolerance, storage, coordination, scheduling algorithms, cluster computing, cloud computing, virtualisation, programming models (e.g., MapReduce), stream processing, decentralised systems (e.g., Chord), incentive-based systems (e.g., BitTorrent), and social computing (e.g., crowd sourcing techniques). This module will draw from the latest research in both academia and industry.</p>				
<b>Programme module type:</b>	Optional for Data-Intensive Analysis MSc Programme. Optional for Networks and Distributed Systems MSc and all other Postgraduate programmes within the School.			
<b>Pre-requisite(s):</b>	CS5001			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 3 hours of lectures (x 11 weeks), 1-hour seminar (x 4 weeks), 1-hour practical class (x 3 weeks)			
<b>Assessment pattern:</b>	2-hour Written Examination = 60%, Coursework = 40%			
<b>Module Co-ordinator:</b>	masters-coord-cs@st-andrews.ac.uk			

ID5059 Knowledge Discovery and Data Mining				
<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 programming (typically R, SAS or python).</p>				
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining Postgraduate Programme. Compulsory for Data-Intensive Analysis MSc Programme. 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>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			

## Computer Science - MSc & MPhil Networks and Distributed Systems - 2016/7 - August 2016

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			

**EITHER**

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 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			

**OR**

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 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:

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. Optional for Advanced Computer Science, Artificial Intelligence, Data-Intensive Analysis, Dependable Software Information Technology, Human Computer Interaction MSc Programmes			
<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			

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 whose circumstances make it 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			

[Further optional modules are available - see the pdf online called 'PG Computer Science - optional modules 2016 - 2017.'](#)



## 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.			
<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.			
<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. 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. 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 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			

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:

CS5039 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 whose circumstances make it 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		

[Further optional modules are available - see the pdf online called 'PG Computer Science - optional modules 2016 - 2017.'](#)





## 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 - 2016/7 - August 2016

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 from:

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. 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 - 2016/7 - August 2016

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.			
<b>Pre-requisite(s):</b>	-	<b>Anti-requisite(s):</b>	CS3102	
<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.			
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.			
<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			

One or both (depending on experience):

CS4052 Logic and Software Verification				
<b>SCOTCAT Credits:</b>	15	SCQF Level 10	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>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.</p>				
<b>Programme module type:</b>	Optional for Erasmus Mundus Dependable Software Systems Postgraduate Programme			
<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			

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 modern 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			

## 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. Optional for Advanced Computer Science, Artificial Intelligence, Data-Intensive Analysis, Dependable Software Information Technology, Human Computer Interaction MSc Programmes			
<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			

Further optional modules are available - see the pdf online called [‘PG Computer Science - optional modules 2016 - 2017.’](#)



## DEng in Computer Science

### Programme Requirements

*Taught Element* 120 credits:

- IS5101
- CS5001
- up to 30 credits from CS4100 - CS4450, subject to appropriate experience
- remaining credits from IS5102 - IS5150, CS5003 - CS5089, CS5201, ID5059, MT4113, MT5756, MT5753, MT5757, MN5424, MN5461, MN5470, MN5471

At least 45 credits must be gained during the first two semester of study.

**Plus a doctoral thesis**

### 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. Either CS5001 or CS5002 is compulsory for Computing and Information Technology Postgraduate Programme. 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			

Up to two from:

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 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>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 - Computer Science - DEng - 2016/7 - August 2016

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>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 modern 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			

## 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. Optional for Advanced Computer Science, Artificial Intelligence, Data-Intensive Analysis, Dependable Software Information Technology, Human Computer Interaction MSc Programmes, DEng in Computer Science			
<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			

CS5201 Special Project for Research Engineers				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Availability restrictions:</b>	Available only to students on the EngD in Computer Science			
<b>Planned timetable:</b>	At times to be arranged with the supervisor			
This module is available only to students on the EngD programme. It provides an opportunity for in-depth individual study, directed by an individual supervisor, of topics directly relevant to the student's intended EngD research project.				
<b>Programme module type:</b>	Optional for the EngD in Computer Science			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2 supervision hours (x 15 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof S Bhatti			

Further optional modules are available - see the pdf online called '[PG Computer Science - optional modules 2016 - 2017.](#)'

For modules from Mathematics or Management, use the module catalogue search at: <https://portal.st-andrews.ac.uk/catalogue/>

## Optional modules for Computer Science degrees

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 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			

## Computer Science - Optional modules for all MSc & MPhil - 2016/7 - August 2016

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>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>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			

## Computer Science - Optional modules for all MSc & MPhil - 2016/7 - August 2016

CS4302 Multimedia				
<b>SCOTCAT Credits:</b>	15	SCQF Level 10	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>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.</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			

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 modern solver.</p>				
<b>Programme module type:</b>	Either CS5012 or CS4402 is compulsory for the Artificial Intelligence Postgraduate Programme. 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			

## Computer Science - Optional modules for all MSc & MPhil - 2016/7 - August 2016

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. 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. Optional for other Postgraduate Programmes.			
<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. Optional for 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 = 60%, Coursework = 40%			
<b>Module Co-ordinator:</b>	masters-coord-cs@st-andrews.ac.uk			



## Computer Science - Optional modules for all MSc & MPhil - 2016/7 - August 2016

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.			
<b>Pre-requisite(s):</b>	-	<b>Anti-requisite(s):</b>	CS3102	
<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 other Postgraduate Programmes in the School of Computer Science			
<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.			
<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 - Optional modules for all MSc & MPhil - 2016/7 - August 2016

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. Optional for other Postgraduate Programmes.			
<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 Optional for all other Postgraduate Programmes in the School of Computer Science			
<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			

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			
<b>Anti-requisite(s):</b>	CS3106			
<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			
<b>Co-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			

## Computer Science - Optional modules for all MSc & MPhil - 2016/7 - August 2016

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			
<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			

## Computer Science - Optional modules for all MSc & MPhil - 2016/7 - August 2016

CS5052 Data-Intensive Systems				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
<p>The era of big data is upon us - the volume, velocity and variety of enterprise and scientific data are growing at an exponential rate and will continue to do so for the foreseeable future. This module presents the programming paradigms, algorithmic techniques and design principles for large-scale distributed systems, such as those utilised by companies such as Google, Amazon and Facebook. This module is different in scope from CS4103 (distributed systems) as it focuses primarily on building and utilising large-scale clusters.</p> <p>The module will cover: distributed systems architecture, replication and fault tolerance, storage, coordination, scheduling algorithms, cluster computing, cloud computing, virtualisation, programming models (e.g., MapReduce), stream processing, decentralised systems (e.g., Chord), incentive-based systems (e.g., BitTorrent), and social computing (e.g., crowd sourcing techniques). This module will draw from the latest research in both academia and industry.</p>				
<b>Programme module type:</b>	Optional for Data-Intensive Analysis MSc Programme. Optional for Networks and Distributed Systems MSc and all other Postgraduate programmes within the School.			
<b>Pre-requisite(s):</b>	CS5001			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 3 hours of lectures (x 11 weeks), 1-hour seminar (x 4 weeks), 1-hour practical class (x 3 weeks)			
<b>Assessment pattern:</b>	2-hour Written Examination = 60%, Coursework = 40%			
<b>Module Co-ordinator:</b>	masters-coord-cs@st-andrews.ac.uk			

ID5059 Knowledge Discovery and Data Mining				
<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 programming (typically R, SAS or python).</p>				
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining Postgraduate Programme. Compulsory for Data-Intensive Analysis MSc Programme. 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>Assessment pattern:</b>	2-hour Written Examination = 60%, Coursework = 40%			
<b>Module Co-ordinator:</b>	masters-coord-cs@st-andrews.ac.uk			

## Computer Science - Optional modules for all MSc & MPhil - 2016/7 - August 2016

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.			
<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.			
<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>	2
<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 Taught Postgraduate Programmes.			
<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			

## Computer Science - Optional modules for all MSc & MPhil - 2016/7 - August 2016

IS5105 Network Systems Management				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<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.			
<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.			
<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.			
<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			





## 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):*

**Analytic and Exegetical Theology** ([link](#))

**Bible and Contemporary World** ([link](#))

**Biblical Languages and Literature** ([link](#))

**Systematic and Historical Theology** ([link](#))

**Theology, Imagination and the Arts** ([link](#))

#### **MLitt:**

**Analytic and Exegetical Theology** ([link](#))

**Bible and Contemporary World** ([link](#))

**Biblical Languages and Literature** ([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 Analytic and Exegetical Theology

### Programme Requirements

**Taught Element:**

120 credits: DI5350, DI5351, DI5352

**MLitt:**

120 credits from the Taught Element plus DI5099

### Compulsory modules - Semester 1:

<b>DI5350 Analytic Theology: God, History and Revelation</b>				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module provides an introduction to analytic theology by locating it within key developments in analytic philosophy over the last four decades. It then proceeds to assess the justification of Christian theological claims in four parts. The first considers the most significant contemporary challenges to Christian theism and the propriety or otherwise of contemporary responses to these. The second considers the relationship between the Christian understanding of God and the nature of revelation. The third assesses the biblical interpretation of God's relationship to history. The final part assesses the significance for the theological epistemology of God's involvement in history.</p>				
<b>Programme module type:</b>	Compulsory for Analytic and Exegetical Theology Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lecture (x 11 weeks), 2-hour seminar (x 11 weeks) and 1.5-hour weekly institute seminar (x 11 weeks)			
<b>Assessment pattern:</b>	3-hour Written Examination = 40%, Coursework = 60%			
<b>Module Co-ordinator:</b>	Prof A Torrance			

<b>DI5351 Reconciliation: Divine and Human</b>				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module explores the doctrine of reconciliation and its implications for human relationships from the perspective of analytic theology. It proceeds through an engagement with biblical exegesis and theological retrieval to analyse the essential features of the Christian doctrines of reconciliation and forgiveness. This it will carry out by considering the key elements in the biblical interpretation of God's relationship to humanity. Second, it will engage in critical analysis of influential expositions of the atonement and reconciliation in the history of theology. Third, it will assess the socio-political implications of the theology of reconciliation and forgiveness.</p>				
<b>Programme module type:</b>	Compulsory for Analytic and Exegetical Theology Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lecture (x 11 weeks), 2-hour seminar (x 11 weeks)			
<b>Assessment pattern:</b>	3-hour Written Examination = 40%, Coursework = 60%			
<b>Module Co-ordinator:</b>	Dr A Torrance			

**Compulsory modules - Semester 2:**

<b>DI5352 Persons: Divine and Human</b>				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will examine and evaluate the concept of the 'person' as used to describe first, the nature of God and the Trinity and, second, the nature of human beings. In doing this it will seek to integrate exegetical, metaphysical and theological analysis and critique.</p> <p>In addition to an assessment of the interpretations of divine personhood and the imago dei in the biblical material and the theological tradition, the course will consider: i) metaphysical issues associated with the concept of identity; ii) the implications of the dualist-physicalist debate; iii) the nature of human relations; and, iv) questions of human uniqueness and purposiveness.</p>				
<b>Programme module type:</b>	Compulsory for Analytic and Exegetical Theology Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lecture (x 11 weeks), 2-hour seminar (x 11 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	TBC			

<b>DI5099 Dissertation for MLitt Programme/s</b>				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	2
<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. A completed dissertation of not more than 15,000 (excluding bibliography) words must be submitted by a date specified in August.</p>				
<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			

## 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.

Students may substitute up to 30 credits from 3000- or 4000-level DI modules, with the approval of the Course Coordinator, if they are not doing language modules.

#### 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			

**Compulsory module for the MLitt - Distance Learning mode:**

<b>DI5999 Dissertation (Distance Learning)</b>				
<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			

**2016/7 modules - Distance learning mode:**

<b>DI5923 Theological Issues in Medical Ethics</b>				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	Distance learning			
This module will approach such questions through a series of contemporary debates in medical ethics, including euthanasia, abortion, the idea of 'physician' as a religious vocation, human enhancement technologies, conscientious objection to performing certain procedures, healthcare policy, and others. Our goal will not be to 'settle' these issues, but to better understand why we think about them as we do. Why do people disagree about this in the precise way that they do? What can we learn from church history to help us better understand our views about these today?				
<b>Programme module type:</b>	Optional for Bible and Contemporary World Postgraduate Taught Programmes. [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 J Perry			
<b>Module Lecturer(s)/Tutor(s):</b>	Dr J Perry			

DI5901 The Bible and Contemporary Issues				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>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.</p>				
<b>Programme module type:</b>	Optional for Bible and Contemporary World Postgraduate Taught Programmes. [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>Module Lecturer(s)/Tutor(s):</b>	Dr E Stoddart and tutoring team from the School of Divinity			

### 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>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>Module Lecturer(s)/Tutor(s):</b>	Dr G Hopps			

## Divinity - PG Bible and Contemporary World - 2016/7 - August 2016

DI5441 Christian Doctrine and the Arts				
<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 - 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>Module Lecturer(s)/Tutor(s):</b>	Dr J Wolfe, Dr O'Hear			

DI5080 Guided Study in Divinity				
<b>SCOTCAT Credits:</b>	10	SCQF Level 11	<b>Semester:</b>	2
<b>Availability restrictions:</b>	Available only to Taught Postgraduate students in combination with an undergraduate module. It may only be taken once.			
<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. 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>Module 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:*

20 credits: DI5105

20 or 40 credits: DI5106 or (DI4726 + DI5080)

20 or 40 credits: DI5107 or (DI3716 + DI5080)

remaining credits (to a total of 120) from: DI5150 - DI5295, DI5429, (DI4705 + DI5080)

Please note DI5080 may only be taken once, so a choice must be made between DI4726, DI3716 and DI4705.

With permission this programme may include: DI5080 and 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.

Students may substitute up to 30 credits from 3000- or 4000-level DI modules, with the approval of the Course Coordinator, if they are not doing language modules.

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. 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			

**AND EITHER**

DI5106 Hebrew 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 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.				
<b>Programme module type:</b>	Compulsory for Biblical Languages and Literature Postgraduate Taught Programme. 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			

**OR (depending on other module choices)**

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			
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.				
<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			

PLUS

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 in combination with an undergraduate module. It may only be taken once.			
<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			

AND

DI5107 Greek 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 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.</p>				
<b>Programme module type:</b>	Either DI5107 or DI4632 + DI5080 is compulsory for Biblical Languages and Literature Postgraduate Taught Programme. 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			

OR (depending on other module choices)

DI3716 Reading in the Greek New Testament				
<b>SCOTCAT Credits:</b>	30	SCQF Level 10	<b>Semester:</b>	1
<b>Planned timetable:</b>	Lecture: 11.00 am - 12.00 noon Thu, Seminar: 10.00 am - 12.00 noon Mon			
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.				
<b>Programme module type:</b>	Either DI5107 or DI4632 + DI5080 is compulsory for Biblical Languages and Literature Postgraduate Programmes .			
<b>Anti-requisite(s):</b>	DI4632			
<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			

PLUS

DI5080 Guided Study in Divinity
See entry above

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:

DI5429 Biblical Themes				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<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. 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			

OR

DI4705 Biblical Aramaic				
<b>SCOTCAT Credits:</b>	30	SCQF Level 10	<b>Semester:</b>	1
<b>Planned timetable:</b>	Lecture: 2.00 pm - 3.00 pm Mon, Seminar: 2.00 pm - 4.00 pm Fri			
<p>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).</p>				
<b>Programme module type:</b>	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>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar and 1-hour lecture.			
<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			

PLUS

DI5080 Guided Study in Divinity
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See entry above

**Further recommended dip-down module:**

<b>DI4731 Ancient Jewish Literature from 1 Enoch to the Mishnah</b>				
<b>SCOTCAT Credits:</b>	30	SCQF Level 10	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will focus on the study of ancient Jewish literature, such as the collection of texts known as 1 Enoch; the Dead Sea Scrolls and other scrolls recovered from the Judaean Desert; ancient noncanonical scriptures ("Old Testament pseudepigrapha"); the works of Philo of Alexandria; the works of Flavius Josephus; and early Rabbinic traditions. The module will examine selected issues, such as the approaches of the texts to the exegesis of the Hebrew Bible, the problems associated with the preservation and transmission of Jewish pseudepigrapha by Christians, and the relevance of ancient Jewish literature for our understanding of the New Testament.</p>				
<b>Programme module type:</b>	Optional as a dip-down module			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 x 2-hour seminar, 1 x 1-hour lecture			
<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			

**PLUS**

<b>DI5080 Guided Study in Divinity</b>
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See entry above

## 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.

Students may substitute up to 30 credits from 3000- or 4000-level DI modules, plus DI5080, with the approval of the Course Coordinator, if they are not doing language modules.

**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. 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 T J Lang			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Wolfe			

## Divinity - PG Systematic & Historical Theology - 2016/7 - August 2016

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:

DI5080 Guided Study in Divinity				
<b>SCOTCAT Credits:</b>	10	SCQF Level 11	<b>Semester:</b>	2
<b>Academic year:</b>	2016/7			
<b>Availability restrictions:</b>	Available only to Taught Postgraduate students in combination with an undergraduate module. It may only be taken once.			
<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>	<b>Coursework (Essay) = 100%</b>			
<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 Systematic & Historical Theology - 2016/7 - August 2016

DI5501 The Origins of Christian Theology				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7			
<b>Planned timetable:</b>	9.00 am - 11.00 am Tue and 9.00 am - 11.00 am Thu			
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. Optional for other Divinity Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 4 hours. (Weeks 1 - 6).			
<b>Assessment pattern:</b>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Dr T J Lang			
<b>Lecturer(s)/Tutor(s):</b>	Dr T J Wolfe			

DI5523 The Doctrine of the Trinity				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7			
<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>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Dr S Holmes			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Holmes			

## Divinity - PG Systematic & Historical Theology - 2016/7 - August 2016

DI5525 Christology				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7			
<b>Planned timetable:</b>	To be arranged.			
This module will examine the development of Christology from the conciliar debates of the fifth century to contemporary political christologies. Students will investigate how dogmatic constructions and emphases relate to the intellectual and / or cultural context in which christologies are produced.				
<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 - 6)			
<b>Assessment pattern:</b>	<b>Coursework = 100 %</b>			
<b>Module Co-ordinator:</b>	TBC			

DI5526 A Selected Mediaeval Theologian				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Academic year:</b>	2016/7			
<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>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Dr W Hyland			
<b>Lecturer(s)/Tutor(s):</b>	Dr W Hyland			

<b>DI4937 The Study of Theology</b>				
<b>SCOTCAT Credits:</b>	30	SCQF Level 10	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>The module treats the nature and purposes of theology. Particular attention will be devoted to the history of theological study and to the ways in which the unity of the biblical, historical, doctrinal and practical inquiries may be conceived. The module begins by considering the object, cognitive principles, ends and settings of theology, and its place in the wider world of human intellectual inquiry. It then treats biblical studies, and historical, systematic and moral-practical theology in their historical development and considering their place in the theological curriculum. It closes with a treatment of the relation of intellectual and moral virtues in theological study. The module provides opportunity for students to extend their knowledge of the history of theological inquiry, to study some key classical and modern texts, to engage in critical reflection on the nature of the various sub-disciplines which make up the theological curriculum, and to consider whether theology is a unified intellectual enterprise. This module will be especially pertinent to final-year students seeking to integrate the varied elements so far studied.</p>				
<b>Programme module type:</b>	Optional for Divinity Postgraduate programmes			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 x 2-hour seminar and 1 x 1-hour lecture			
<b>Assessment pattern:</b>	3-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			



## 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>	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 - 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 - 2016/7 - August 2016

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>	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>	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			

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			





## Department of Earth & Environmental Sciences

### Taught Programmes

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

#### **MSc:**

**Geochemistry** ([link](#))

**Oil and Gas Innovation** ([link](#))

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



## Master of Science in Geochemistry

### Programme Requirements

MSc:

**Taught Element:**

90 credits: From ES3008<sup>1</sup> (or ES3011 by agreement), ES4031, ES5005, ES5010, ES5050, ES5051, CH3721<sup>2</sup>

30 credits: chosen from ES5006, ES5011, ES5012, ES5013, CH5511, CH5517, CH5518, CH5715, CH5716

120 credits: as for the Taught Element, plus a 60-credit individual project (ES5099) comprising 3 months of full-time study.

1. *Entrants from BSc Geology or Environmental Earth Science from St Andrews will substitute ES3011 for ES3008.*
2. *Entrants with a BSc in Chemistry may substitute CH3721 for CH3513, CH4514, CH4714 or CH5711.*

### Compulsory modules - Semester 1:

ES3008 Geochemistry				
<b>SCOTCAT Credits:</b>	15	SCQF Level 9	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am Tue and Thu (lectures), 2.00 - 5.00 Fri (practicals)			
<p>This module provides an introduction to geochemistry: the study of the abundance, distribution and circulation of the chemical elements in minerals, rocks, soils, water and the atmosphere. Geochemical tools are a powerful means to the study of geological, economic, and environmental problems. In the module we study the origin and distribution of the chemical elements in the Earth and solar system and review thermodynamics and kinetics as applied to Earth systems. We apply thermodynamics to make quantitative predictions regarding the outcome of chemical reactions associated with geological processes. We consider the behaviour of elements, mainly in low temperature environments. Material covered includes use of stable and radiogenic isotopes, aqueous geochemistry and mineral precipitation and dissolution. We utilise geochemical tools to constrain changes in earth processes and climate, and to predict the impact of future change.</p> <p>The module includes a field trip to study river geochemistry and multiple practical sessions to develop the lecture concepts.</p>				
<b>Programme module type:</b>	Normally compulsory for MSc in Geochemistry (in some circumstances ES3011 may be substituted).			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 17 lectures, 15 hours of laboratory classes, 2 or more field classes over the semester.			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr N Allison			

ES4031 Analytical Sciences				
<b>SCOTCAT Credits:</b>	5	SCQF Level 10	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged			
<p>This module is designed to support students who do not have a strong background in the analytical methods used in Earth Science. These include, for example, students enrolled in BSc Geography or MSc Geochemistry degree programmes. The module comprises a series of seven lectures starting with the basic principles of accuracy and precision, which are then illustrated in the context of the most common analytical methods used in geoscience. Students are asked to independently research an analytical method of interest. This is then presented in a poster imitating the poster sessions at major conferences. Posters are marked by both students (peer assessment) and staff (different weighting). The module will give students the necessary training to allow them to excel in other Earth Science modules.</p>				
<b>Programme module type:</b>	Normally compulsory for MSc in Geochemistry.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 7 lectures and 4-hour poster session.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Finch			

ES5005 Isotope Geochemistry: Theory, Techniques, and Applications				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Isotope geochemistry has grown over the last 50 years to become one of the most important fields in the Earth sciences. The growth in the importance of isotope geochemistry reflects its remarkable success in solving fundamental problems in mantle formation, ore genesis, hydrology, hydrocarbon formation, crustal evolution, planetary formation, geochemical cycles, hydrothermal circulation, ocean circulation, and climate and environmental change. In this module, we will explore the theory of isotopes and their fractionation, including kinetic, equilibrium, and Rayleigh fractionation. We will also learn how isotope measurements are made, with an introduction to mass spectrometry methods, techniques, and analysis. The latter half of the course will be devoted to case studies and applications of isotopes to interesting problems across Earth Sciences including the evolution of the atmosphere, the formation of the solar system and planets, and climate and carbon cycle reconstructions. These case studies will introduce concepts such as clumped isotopes, isotope mass balance, mass independent fractionation, and radionuclide disequilibria.</p>				
<b>Programme module type:</b>	Compulsory for MSc in Geochemistry.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures (x 10.5 weeks), 3-hour practical sessions (x 3 weeks)			
<b>Assessment pattern:</b>	2-hour Practical (Open Book) Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr A Burke			
<b>Lecturer(s)/Tutor(s):</b>	Dr P Savage, Dr J Rae			

<b>CH3721 Physical Chemistry Laboratory</b>				
<b>SCOTCAT Credits:</b>	10	SCQF Level 11	<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>	Compulsory for MSc in Geochemistry (unless BSc Chemistry is already held)			
<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			

## Compulsory modules - Semester 2:

<b>ES5010 Advanced Geochemistry</b>				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
Many of the environmental challenges facing society revolve around the cycling of natural materials between fluid and solid phases. Some of the most fundamental aspects of Earth System development are investigated through geochemical methodologies that characterise and interrogate processes operating at the interface between the solid Earth and the fluid Earth. Further, the processes that concentrate many natural resources are a result of fluid-solid interactions that can be studied using organic and aqueous geochemistry. This module focuses on training in the state-of-the art techniques and methodologies that are tools that can be applied widely to address questions about environmental changes and chemistry in sediments and natural waters and, as well as utilisation and exploitation of hydrocarbon resources and Earth System evolution through time.				
<b>Programme module type:</b>	Compulsory for MSc in Geochemistry.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour lecture (x 10 weeks), 5 x 3-hour practical sessions and 1 x 8-hour session of project presentations over the semester.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Stueeken			

ES5050 Earth's Greatest Hits				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	11:00 – 12:00 Thurs; 10:00 – 13:00 Wed			
<p>This module is based around current "hot topics" in Earth science research. It will introduce cutting-edge science questions about how our planet has evolved from a ball of molten rock to the habitable blue planet it is today, and some of the major changes in its chemistry, biosphere, and climate that have happened along the way. Topics will vary from year to year, depending on staff participating in the module and the advances in Earth science research.</p> <p>This module is research-led, requiring that you read, digest, and discuss a number of topical papers each week. For some of these topics there is no given answer; instead you gain an in-depth understanding of the current state of research. Topics are introduced in lectures and then discussion seminars, organised around student presentations, are designed to encourage debate and critique of the arguments presented in the research papers.</p>				
<b>Programme module type:</b>	Compulsory for MSc in Geochemistry.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 7 hours of lectures and 21 hours of seminars over the semester..			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Rae			

ES5051 Geochemistry Field Excursion				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2 weeks of field work and post-trip analysis in April			
<p>Field sampling and laboratory analysis of natural samples are an important part of a geochemists' toolkit. This module will introduce the skills necessary for planning and executing a successful field campaign, developing best practice field skills in documenting the geological and environmental controls on a geochemical problem, and how to select and take samples. These will be analysed using the laboratory facilities available in the Department of Earth and Environmental Sciences and a scientific report will be written based on the methods used and results generated. The costs associated with this module are partially supported by the Department.</p>				
<b>Programme module type:</b>	Compulsory for MSc in Geochemistry.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lecture (x 5 weeks), 40 hours of field work, 4 x 4 hours of analytical training sessions.			
<b>Assessment pattern:</b>	Coursework = 100% (report and notebooks)			
<b>Module Co-ordinator:</b>	Dr M Claire			

## Optional modules - Semester 1:

ES5011 Water in the Environment				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	TBA			
<p>Water is fundamental to life on Earth and the functioning of healthy ecosystems and societies. However, fresh water is unevenly distributed across the continents, presenting challenges for maintaining adequate supplies to support ecosystem functioning and the growth and development of modern human society. Furthermore, humans interact with the hydrosphere in ways that contribute to degradation of water quality. These problems of water quantity and quality are exacerbated by fluctuations and trends in climate that contribute to accentuated flooding and drought cycles in particular regions. The ability of current and future generations to understand, predict, and ameliorate such problems requires a solid understanding of hydrology in terms of the hydrological cycle, its forcing by climate, partitioning of water between surface and subsurface, water availability to ecosystems, the role of water in biogeochemistry, geochemistry associated with water, rock and/or soil interactions, or and the management of floods and water shortages. This course provides a combination of the underpinning hydrological theory and the analytical tools required to better understand and ameliorate problems of water in the environment. It will allow students to read and evaluate primary scientific research and it will challenge them to conduct modelling experiments to assess hydrological responses to various external factors. The module assessment will consist of analytical problem solving, simulated communication of hydrological science to government officials and the media, and an exam of short answers and essays.</p>				
<b>Programme module type:</b>	Option for MSc in Geochemistry, MGeol Earth Sciences, Level 4 BSc Environmental Earth Science students.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 20 hours of lectures, 6 hours of laboratory work and 4 hours of tutorials over the semester.			
<b>Assessment pattern:</b>	Coursework = 60%; Written Examination = 40%			
<b>Module Co-ordinator:</b>	Dr M Singer			

ES5013 Advanced Petrogenesis				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	11:00 – 12:00 Thurs; 10:00 – 13:00 Wed			
<p>The Earth's crust is largely created by acid and basic magmatism and many of the planet's critical resources are formed from igneous processes. The module explores the nature of that magmatism, the petrography and geochemistry of the minerals and rocks created, and the petrogenesis and evolution of the magma. The petrological characteristics of the continental crust and of the upper mantle, the principal sources of acid and basic magmas, are examined in detail for the influence which these have on the magmas created by partial melting. The economic significance of alkaline rocks as the hosts for many of the world's critical metals is considered.</p>				
<b>Programme module type:</b>	Option for MSc in Geochemistry, BSc Geology and MGeol Earth Sciences.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 18 lectures, 15 hours of laboratory work, 18 hours of field-related study.			
<b>Assessment pattern:</b>	Written Examination – 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Prof A Finch			

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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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			

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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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			



## Optional modules - Semester 2:

ES5006 Metallogeny				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	9:00 am - 11:00 am Thu (lectures); 9.00 am - 1.00 pm (practicals)			
<p>The module focuses on the geodynamic setting, age, geometry and mineralogy of the principal metallic mineral deposits using a holistic approach (structural geology, geochemistry, isotope geochemistry, sedimentology, igneous geology, metamorphic geology, and geophysics). Current genetic models of ore deposits are reviewed with an emphasis on the geological processes required to create them. Finally, a roadmap to mineral exploration for each type of ore deposit is discussed.</p> <p>Laboratory exercises involve geological problem solving using a mineral exploration industry focus involving the examination of geological maps and representative suites of samples (thin sections, hand samples, and outcrops) from different types of metallic mineral deposits.</p> <p>A single day field excursion will be to the gold mine at Cononish or the lead mine at Wanlockhead to cover the geological context of the ore bodies and aspects of their exploration and production.</p>				
<b>Programme module type:</b>	Optional for MSc in Geochemistry, BSc Geology and MGeol Earth Sciences.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1- or 2-hour lectures (23 hours over 11 weeks); 2-hour or 3-hour practical sessions (14 hours over 5 weeks); 4 hours of oral presentations; 9 hours of field work			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr J Cloutier			

ES5012 Biogeochemistry				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>Earth's surface environment is tightly regulated by biogeochemical processes. The biosphere directly influences the composition of Earth's atmosphere, ocean chemistry, and global climate, through the cycling of nutrients and other elements. This module will examine the role of biogeochemical processes in controlling Earth surface chemistry, and their possible influence on deep Earth reservoirs. Emphasis will be placed on feedbacks between the geosphere, atmosphere, and biosphere over geologic time, and how these interactions have both contributed and responded to important transitions in Earth history (e.g., the Great Oxidation Event, global glaciations). We will also highlight current geochemical (e.g., stable isotope ratios) and numerical (e.g., modelling) techniques used to constrain these interactions in both modern and ancient (rock record) systems.</p>				
<b>Programme module type:</b>	Option for MSc in Geochemistry.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 15 hours of lectures and 21 hours of laboratory practicals (inc. modelling exercises, literature reviews).			
<b>Assessment pattern:</b>	2-hour Written Examination = 40%, Coursework = 60% (inc. individual project)			
<b>Module Co-ordinator:</b>	Dr A Zerkle			

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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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			

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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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			

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>	Optional for Chemical Science MSc and Chemistry MPhil. Optional for MSc in Geochemistry.			
<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 Baker			

## Compulsory module - Summer:

ES5099 Research Project				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	Summer
<b>Planned timetable:</b>	To be arranged.			
<p>This module provides an opportunity to conduct independent research with an academic supervisor, usually within a research group. The research topic is defined by the student and can be chosen from research foci within the department. The research project will involve project formulation, a background literature review, proposal writing, and analytical design, as well as data integration and interpretation. The results are presented as oral presentations and at a poster conference, and in a dissertation.</p>				
<b>Programme module type:</b>	Compulsory for MSc in Geochemistry.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour lectures x 4 weeks; 4-hour seminar sessions (x 2 weeks); supervisory meetings (11 hours); 5-hour conference poster session.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr P Savage			



## Master of Science in Oil and Gas Innovation

### Programme Requirements

**MSc:**

***Taught Element:***

45 credits: From ES5201 and

*Commercialising Innovation* (delivered by Aberdeen's Business and Law Schools)

*Entrepreneurial Leadership* (5)

*Finance and Pitching for funding for a New Venture* (5)

*Product Development* (5)

(not delivered by St Andrews)

15 credits: chosen from ES3008, ES4007, ES5005, ES5009, ES5010, ES5012

120 credits: ES5299

This programme will equip graduates with the skills and competencies required to generate and commercialise innovations and to ensure their successful adoption in the Oil and Gas sector; this is a recognised area of skills development by the Oil and Gas Industry. The programme is run as a collaboration between a set of Scottish Universities that will include Aberdeen, Heriot-Watt, Strathclyde, RGU, St Andrews, UHI, and Glasgow Caledonian, and provides an opportunity for students to gain from the breadth of expertise and experience across these institutions. The programme covers project development and identifying opportunities for innovation, organisational practises and promoting innovation, understanding market readiness, business models and plans, how to conduct market research and obtain funding, and understand the regulatory, IP and litigation issues surrounding innovation in the Oil and Gas sector.

### Compulsory modules:

ES5201 Project Scoping				
<b>SCOTCAT Credits:</b>	15	SCQF Level 9	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
The module prepares students for the Oil and Gas Innovation project, by scoping a project informed by literature and market research, and in interaction with the academic supervisor and, where applicable, an industry partner. The aims of the module are to build the knowledge and understanding that allows an innovation opportunity to be identified with supporting literature review and market research, and to develop the intellectual skills required to design a project plan that will be undertaken in the Oil and Gas Innovation Project.				
<b>Programme module type:</b>	Compulsory for MSc in Oil and Gas innovation			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 hour (x 11 weeks) with 14 hours of project scoping events and 4 hours of project plan review sessions.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Bates			

ES5201 Project in Oil and Gas Innovation				
<b>SCOTCAT Credits:</b>	120	SCQF Level 9	<b>Semester:</b>	2
<b>Planned timetable:</b>	Supervisor meetings: 1 per week for 25 weeks			
<p>The module involves independent research on an Oil and Gas Innovation opportunity, which has been designed and approved during the Project Scoping module (ES5101). The independent project offers students the opportunity to apply the knowledge acquired during the taught components of the course and to deepen this knowledge by executing an Oil and Gas Innovation project and delivering a formal report. The work requires reference to, and integration of, the various taught elements, independent research (data collection, analysis, interpretation), together with a general knowledge of all aspects of innovation (including political, economic, social, technological, environmental and legal factors). Normally projects will involve working with an industry partner, and students may be based in industry for. Supervision will include a primary and secondary academic supervisor and an industry supervisor (when relevant).</p>				
<b>Programme module type:</b>	Compulsory for MSc in Oil and Gas innovation			
<b>Pre-requisite(s):</b>	ES5201			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 hour (x 25 weeks).			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr R Bates			

**Optional modules (offered by St Andrews):**

ES3008 Geochemistry				
<b>SCOTCAT Credits:</b>	15	SCQF Level 9	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am Tue and Thu (lectures), 2.00 - 5.00 Fri (practicals)			
<p>This module provides an introduction to geochemistry: the study of the abundance, distribution and circulation of the chemical elements in minerals, rocks, soils, water and the atmosphere. Geochemical tools are a powerful means to the study of geological, economic, and environmental problems. In the module we study the origin and distribution of the chemical elements in the Earth and solar system and review thermodynamics and kinetics as applied to Earth systems. We apply thermodynamics to make quantitative predictions regarding the outcome of chemical reactions associated with geological processes. We consider the behaviour of elements, mainly in low temperature environments. Material covered includes use of stable and radiogenic isotopes, aqueous geochemistry and mineral precipitation and dissolution. We utilise geochemical tools to constrain changes in earth processes and climate, and to predict the impact of future change.</p> <p>The module includes a field trip to study river geochemistry and multiple practical sessions to develop the lecture concepts.</p>				
<b>Programme module type:</b>	Optional for MSc in Oil and Gas Innovation			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 17 lectures, 15 hours of laboratory classes, 2 or more field classes over the semester.			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr N Allison			

<b>ES4007 Petroleum Exploration and Geophysics</b>				
<b>SCOTCAT Credits:</b>	15	SCQF Level 10	<b>Semester:</b>	1
<b>Planned timetable:</b>	11.00 am - 1.00 pm Thu (lectures), 2.00 - 5.00 pm Thu (practicals)			
The fundamental concepts, techniques and practices of the hydrocarbon exploration industry are presented. Students will gain a thorough understanding of the geoscience of petroleum exploration, particularly using geophysical methods, and a working knowledge of modern concepts in oil and gas geology.				
<b>Programme module type:</b>	Optional for MSc in Oil and Gas Innovation			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 17 lectures, 15 hours laboratory classes, field classes over the semester.			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr R Bates			

<b>ES5005 Isotope Geochemistry: Theory, Techniques, and Applications</b>				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
Isotope geochemistry has grown over the last 50 years to become one of the most important fields in the Earth sciences. The growth in the importance of isotope geochemistry reflects its remarkable success in solving fundamental problems in mantle formation, ore genesis, hydrology, hydrocarbon formation, crustal evolution, planetary formation, geochemical cycles, hydrothermal circulation, ocean circulation, and climate and environmental change. In this module, we will explore the theory of isotopes and their fractionation, including kinetic, equilibrium, and Rayleigh fractionation. We will also learn how isotope measurements are made, with an introduction to mass spectrometry methods, techniques, and analysis. The latter half of the course will be devoted to case studies and applications of isotopes to interesting problems across Earth Sciences including the evolution of the atmosphere, the formation of the solar system and planets, and climate and carbon cycle reconstructions. These case studies will introduce concepts such as clumped isotopes, isotope mass balance, mass independent fractionation, and radionuclide disequilibria.				
<b>Programme module type:</b>	Optional for MSc in Oil and Gas Innovation			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures (x 10.5 weeks), 3-hour practical sessions (x 3 weeks)			
<b>Assessment pattern:</b>	2-hour Practical (Open Book) Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr A Burke			
<b>Lecturer(s)/Tutor(s):</b>	Dr P Savage, Dr J Rae			

## Earth & Environmental Sciences - Oil and Gas Innovation - 2016/7 - August 2016

ES5009 Geodynamics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	9.00 am - 10.00 am Tue and Wed; 9.00 am - 5.00 pm Fri (Weeks 2,5,9)			
A study of the geodynamic evolution of Earth's crust since the Archaean, the evolution of convergent and divergent margins, and the relationships between tectonics, erosion and climate. The module contrasts geodynamic evolution in the Archaean, Proterozoic, Palaeozoic, Mesozoic and Cenozoic using a number of case studies, including examples visited in the field. The module develops skills of geodynamic interpretation, field observation, use of numerical models, report writing and oral presentation.				
<b>Programme module type:</b>	Optional for MSc in Oil and Gas Innovation			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2 x 1-hour lectures (x 11 weeks), plus 2 extended laboratory classes, and 2 days in the field during the semester.			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Prof P Cawood			
<b>Lecturer(s)/Tutor(s):</b>	Dr T Raub			

ES5010 Advanced Geochemistry				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
Many of the environmental challenges facing society revolve around the cycling of natural materials between fluid and solid phases. Some of the most fundamental aspects of Earth System development are investigated through geochemical methodologies that characterise and interrogate processes operating at the interface between the solid Earth and the fluid Earth. Further, the processes that concentrate many natural resources are a result of fluid-solid interactions that can be studied using organic and aqueous geochemistry. This module focuses on training in the state-of-the art techniques and methodologies that are tools that can be applied widely to address questions about environmental changes and chemistry in sediments and natural waters and, as well as utilisation and exploitation of hydrocarbon resources and Earth System evolution through time.				
<b>Programme module type:</b>	Optional for MSc in Oil and Gas Innovation			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour lecture (x 10 weeks), 5 x 3-hour practical sessions and 1 x 8-hour session of project presentations over the semester.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Stueeken			



<b>ES5012 Biogeochemistry</b>				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>Earth's surface environment is tightly regulated by biogeochemical processes. The biosphere directly influences the composition of Earth's atmosphere, ocean chemistry, and global climate, through the cycling of nutrients and other elements. This module will examine the role of biogeochemical processes in controlling Earth surface chemistry, and their possible influence on deep Earth reservoirs. Emphasis will be placed on feedbacks between the geosphere, atmosphere, and biosphere over geologic time, and how these interactions have both contributed and responded to important transitions in Earth history (e.g., the Great Oxidation Event, global glaciations). We will also highlight current geochemical (e.g., stable isotope ratios) and numerical (e.g., modelling) techniques used to constrain these interactions in both modern and ancient (rock record) systems.</p>				
<b>Programme module type:</b>	Compulsory for MSc in Geochemistry.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2 x 1-hour lectures and 3-hour practical sessions.			
<b>Assessment pattern:</b>	2-hour Written Examination = 40%, Coursework (including modelling exercises, literature review and project) = 60%			
<b>Module Co-ordinator:</b>	Dr A Zerkle			



## 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](#))

**Finance and Economics** ([link](#))

**Money, Banking and Finance** ([link](#))

#### **MSc:**

**Economics** ([link](#))

**Finance** ([link](#))

**Finance and Economics** ([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:

Compulsory modules 60 credits: EC5201 - EC5203

Optional modules 60 credits from: 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. Either EC5201 or EC5202 is compulsory for MSc In Finance and Economics.			
<b>Anti-requisite(s):</b>	EC5801			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 20 hours of lectures over 11 weeks, 1-hour tutorial (x 10 weeks) plus 1 office hour (x 12 weeks).			
<b>Assessment pattern:</b>	3-hour Written Examination = 75%, Coursework = 25%			
<b>Module Co-ordinator:</b>	Dr O Senay			
<b>Lecturer(s)/Tutor(s):</b>	Dr O Senay			

## Economics & Finance - Economics MSc - 2016/7 - August 2016

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. Either EC5201 or EC5202 is compulsory for MSc In Finance and Economics.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 20 hours of lectures over 11 weeks, 1-hour tutorial (x 10 weeks) plus 1 office hour (x 12 weeks).			
<b>Assessment pattern:</b>	3-hour Written Examination = 75%, Coursework = 25%			
<b>Module Co-ordinator:</b>	Dr K Ozbek			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Ozbek, Prof P Manzini			

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. Compulsory for MSc in Finance and Economics.			
<b>Anti-requisite(s):</b>	EC5609	<b>Required for:</b>	EC5221	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 20 hours of lectures over 11 weeks, 1-hour tutorial (x 8 weeks), 2-hour computing labs (x 2 weeks) plus 1 office hour (x 12 weeks)			
<b>Assessment pattern:</b>	3-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr I Merkurieva			
<b>Lecturer(s)/Tutor(s):</b>	Dr I Merkurieva, Dr K Petrova			

## 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.			
<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:

EC5220 Game Theory				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module will provide a thorough advanced treatment of the core models and concepts used in modern game theory. Many serious things in life are games. Game theory is a set of formal techniques used to study situations of strategic interaction. These are situations where the reward obtained by each member of a group (e.g. firms, political parties, students) depends not only on the decision made by that member, but also on the decisions made by everybody else; and, in addition, everybody is aware of this interdependence. The methods of game theory are widely used in contemporary economics. An acquaintance with them is essential to the accomplished economist. In fact, game theory provides a unified language to address a spectrum of problems which is not limited to economics. Topics covered will include: strategic games; mixed strategy equilibria; extensive form games (with perfect information); bargaining games; repeated games; games of incomplete information; implementation theory; coalitional games; and bounded rationality. Students are expected to have a strong undergraduate level training in microeconomics and relevant mathematical and statistical techniques.				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance and Economics, and MSc in Money, Banking and Finance.			
<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 = 25%			
<b>Module Co-ordinator:</b>	Dr K Ozbek			
<b>Lecturer(s)/Tutor(s):</b>	Prof P Manzini, Professor M Mariotti, Dr A Nichifor, Dr Y Gerasimou			

EC5221 Econometric Time Series Analysis				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will provide a thorough advanced treatment of the core theory and practice of time series econometrics. It examines the models and statistical techniques used to study time series data in economics. The first objective is to lay out the econometric theory of time series analysis and the second is to equip students who will use time series data or methods in their future Ph.D. research with some of the tools they will need. Students are expected to have intermediate- level knowledge of matrix algebra, calculus and statistics.</p>				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Money, Banking and Finance.			
<b>Pre-requisite(s):</b>	EC5203			
<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 = 25%			
<b>Module Co-ordinator:</b>	Prof R McCrorie			

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>				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance and Economics, and MSc in Money, Banking and Finance.			
<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 and Economics. Compulsory for MSc in Finance. Optional for MSc in Economics.			
<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 V Prasad			

EC5605 Monetary Policy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<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. Optional for MSc in Economics, and MSc in Finance and Economics.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2 lectures, tutorial (fortnightly).			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr K Ozhan			

EC5606 Corporate Governance and Risk				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
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 Finance and Economics, and MSc in Money, Banking and Finance.			
<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>	To be arranged.			
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. Optional for MSc in Economics, MSc in Finance, and MSc in Finance and Economics.			
<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 K Ozhan			

EC5610 Mergers and Acquisitions				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module aims to introduce to students the key issues on mergers and acquisitions (M &amp; A) literature. They will develop their ability critically to understand issues such as (a) regulatory and strategic considerations, takeover tactics, and takeover defences, (b) target firm valuation, (c) M &amp; A activity (d) empirical tests of both the short- and the long-run performance, (e) cross-border acquisitions and their main differences with domestic ones and (f) different game theoretical approaches on M &amp; A.</p>				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 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.			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for MSc in Finance. Optional for MSc in Economics, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 L Chollete			

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, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 M Zhang			

## Masters in Finance

### *Taught Element:*

Compulsory modules 100 credits: EC5601, EC5604, EC5609, EC5611, EC5901

Optional modules 20 credits from: EC5606, EC5608, EC5610, 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 and Economics. Compulsory for MSc in Finance.			
<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			

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 and Economics. Compulsory for MSc in Finance. Optional for MSc in Economics.			
<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 V Prasad			

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 (x 9 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 K Petrova			

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. Optional for MSc in Economics, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 L Chollete			

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 G Mitka			

### 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.			
<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>	To be arranged.			
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 Finance and Economics, and MSc in Money, Banking and Finance.			
<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>	To be arranged.			
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. Optional for MSc in Economics, MSc in Finance, and MSc in Finance and Economics.			
<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 K Ozhan			



EC5610 Mergers and Acquisitions				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module aims to introduce to students the key issues on mergers and acquisitions (M & A) literature. They will develop their ability critically to understand issues such as (a) regulatory and strategic considerations, takeover tactics, and takeover defences, (b) target firm valuation, (c) M & A activity (d) empirical tests of both the short- and the long-run performance, (e) cross-border acquisitions and their main differences with domestic ones and (f) different game theoretical approaches on M & A.				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 L Barbopoulos			

EC5722 Risk Management				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
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.				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 M Zhang			



## Masters in Finance and Economics

### *Taught Element:*

80 credits: Compulsory modules (EC5201 or EC5202), EC5203, EC5601, EC5604

40 credits: Optional modules EC5220, EC5223, EC5225, EC5605, EC5606. EC5608, EC5610, EC5611, EC5722

### **MSc:**

120 credits as for the Taught Element plus EC5399

### 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. Either EC5201 or EC5202 is compulsory for MSc In Finance and Economics.			
<b>Anti-requisite(s):</b>	EC5801			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 20 hours of lectures over 11 weeks, 1-hour tutorial (x 10 weeks) plus 1 office hour (x 12 weeks).			
<b>Assessment pattern:</b>	3-hour Written Examination = 75%, Coursework = 25%			
<b>Module Co-ordinator:</b>	Dr O Senay			
<b>Lecturer(s)/Tutor(s):</b>	Dr O Senay			

OR

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. Either EC5201 or EC5202 is compulsory for MSc In Finance and Economics.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 20 hours of lectures over 11 weeks, 1-hour tutorial (x 10 weeks) plus 1 office hour (x 12 weeks).			
<b>Assessment pattern:</b>	3-hour Written Examination = 75%, Coursework = 25%			
<b>Module Co-ordinator:</b>	Dr K Ozbek			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Ozbek, Prof P Manzini			

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. Compulsory for MSc in Finance and Economics.			
<b>Anti-requisite(s):</b>	EC5609	<b>Required for:</b>	EC5221	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 20 hours of lectures over 11 weeks, 1-hour tutorial (x 8 weeks), 2-hour computing labs (x 2 weeks) plus 1 office hour (x 12 weeks)			
<b>Assessment pattern:</b>	3-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr I Merkurieva			
<b>Lecturer(s)/Tutor(s):</b>	Dr I Merkurieva, Dr K Petrova			

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 and Economics. Compulsory for MSc in Finance.			
<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			

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 and Economics. Compulsory for MSc in Finance. Optional for MSc in Economics.			
<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 V Prasad			
<b>Lecturer(s)/Tutor(s):</b>				

## Compulsory for the MSc:

EC5399 Dissertation in Finance and Economics				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Planned timetable:</b>	To be arranged.			
<p>This module is designed to develop students' independent research, writing and presentation skills and to enable them to apply financial, economic, mathematical and/or statistical/econometric analysis to a selected topic in Quantitative Finance. The dissertation must be on a topic in Quantitative Finance and a preliminary outline of it should have been approved within the first two weeks of Martinmas semester by the Director of Teaching and by the proposed dissertation supervisor. The maximum number of words allowed is 20,000 but students will be advised to cover the topic in around 15,000. Dissertations have to be written individually. (Guidelines for printing and binding dissertations can be found at: <a href="http://www.st-andrews.ac.uk/printanddesign/dissertation/">http://www.st-andrews.ac.uk/printanddesign/dissertation/</a>)</p>				
<b>Programme module type:</b>	Compulsory for MSc in Finance and Economics.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> Individual Supervision			
<b>Assessment pattern:</b>	15-Minute Examination = 15%, Dissertation = 85%			
<b>Module Co-ordinator:</b>	Dr M La Manna			

## Optional modules:

EC5220 Game Theory				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<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 game theory. Many serious things in life are games. Game theory is a set of formal techniques used to study situations of strategic interaction. These are situations where the reward obtained by each member of a group (e.g. firms, political parties, students) depends not only on the decision made by that member, but also on the decisions made by everybody else; and, in addition, everybody is aware of this interdependence. The methods of game theory are widely used in contemporary economics. An acquaintance with them is essential to the accomplished economist. In fact, game theory provides a unified language to address a spectrum of problems which is not limited to economics. Topics covered will include: strategic games; mixed strategy equilibria; extensive form games (with perfect information); bargaining games; repeated games; games of incomplete information; implementation theory; coalitional games; and bounded rationality. Students are expected to have a strong undergraduate level training in microeconomics and relevant mathematical and statistical techniques.</p>				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance and Economics, and MSc in Money, Banking and Finance.			
<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 = 25%			
<b>Module Co-ordinator:</b>	Dr K Ozbek			
<b>Lecturer(s)/Tutor(s):</b>	Prof P Manzini, Professor M Mariotti, Dr A Nichifor, Dr Y Gerasimou			

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>				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance and Economics, and MSc in Money, Banking and Finance.			
<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			

EC5605 Monetary Policy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<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. Optional for MSc in Economics, and MSc in Finance and Economics.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2 lectures, tutorial (fortnightly).			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr K Ozhan			

EC5606 Corporate Governance and Risk				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
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 Finance and Economics, and MSc in Money, Banking and Finance.			
<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>	To be arranged.			
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. Optional for MSc in Economics, MSc in Finance, and MSc in Finance and Economics.			
<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 K Ozhan			



EC5610 Mergers and Acquisitions				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module aims to introduce to students the key issues on mergers and acquisitions (M &amp; A) literature. They will develop their ability critically to understand issues such as (a) regulatory and strategic considerations, takeover tactics, and takeover defences, (b) target firm valuation, (c) M &amp; A activity (d) empirical tests of both the short- and the long-run performance, (e) cross-border acquisitions and their main differences with domestic ones and (f) different game theoretical approaches on M &amp; A.</p>				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 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.			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for MSc in Finance. Optional for MSc in Economics, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 L Chollete			

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, MSc in Finance and Economics and MSc in Money, Banking and Finance.		
<b>Pre-requisite(s):</b>	EC5601	<b>Anti-requisite(s):</b>	
<b>Co-requisite(s):</b>		<b>Required for:</b>	
<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 M Zhang		
<b>Lecturer(s)/Tutor(s):</b>			

## Masters in Money, Banking and Finance

### Taught Element:

Compulsory modules 100 credits: EC5605, EC5608, EC5609, EC5801, EC5901

Optional modules 20 credits from: EC5225, EC5606, EC5610, EC5611, EC5722

### MSc:

120 credits as for the Taught Element plus EC5899

### Compulsory modules:

EC5605 Monetary Policy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
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. Optional for MSc in Economics, and MSc in Finance and Economics.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2 lectures, tutorial (fortnightly).			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr K Ozhan			

EC5608 Financial Intermediation				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
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. Optional for MSc in Economics, MSc in Finance, and MSc in Finance and Economics.			
<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 K Ozhan			

## Economics & Finance - Money, Banking & Finance MSc - 2016/7 - August 2016

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 (x 9 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 K Petrova			

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.			
<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 O de Groot			

EC5901 International Finance				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>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.</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> Lectures and tutorials.			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr G Mitka			

## 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.			
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.				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance and Economics, and MSc in Money, Banking and Finance.			
<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>	To be arranged.			
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 Finance and Economics, and MSc in Money, Banking and Finance.			
<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			

EC5610 Mergers and Acquisitions				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module aims to introduce to students the key issues on mergers and acquisitions (M & A) literature. They will develop their ability critically to understand issues such as (a) regulatory and strategic considerations, takeover tactics, and takeover defences, (b) target firm valuation, (c) M & A activity (d) empirical tests of both the short- and the long-run performance, (e) cross-border acquisitions and their main differences with domestic ones and (f) different game theoretical approaches on M & A.				
<b>Programme module type:</b>	Optional for MSc in Economics, MSc in Finance, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 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. Optional for MSc in Economics, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 L Chollete			

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, MSc in Finance and Economics and MSc in Money, Banking and Finance.			
<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 M Zhang			





## 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** (*not available 2016-2017*)

**Mediaeval Studies** ([see section 17](#))

**Modern and Contemporary Literature and Culture** ([link](#))

**Postcolonial and World Literatures** (*not available 2016-2017*)

**Romantic /Victorian Studies** ([link](#))

**Shakespeare and Renaissance Literary Culture** ([link](#))

**Women, Writing and Gender** ([link](#))

#### **MLitt:**

**Creative Writing** ([link](#))

**Mediaeval English** (*not available 2016-2017*)

**Mediaeval Studies** ([see section 17](#))

**Modern and Contemporary Literature and Culture** ([link](#))

**Postcolonial and World Literatures** (*not available 2016-2017*)

**Romantic /Victorian Studies** ([link](#))

**Shakespeare and Renaissance Literary Culture** ([link](#))

**Women, Writing and Gender** ([link](#))

#### **MFA:**

**Creative Writing** ([link](#))

#### **MPhil:**

**Mediaeval English** (*not available 2016-2017*)

**Mediaeval Studies** ([see section 17](#))

**Modern and Contemporary Literature and Culture** ([link](#))

**Postcolonial and World Literatures** (*not available 2016-2017*)

**Romantic /Victorian Studies** ([link](#))

**Shakespeare and Renaissance Literary Culture** ([link](#))

**Women, Writing and Gender** ([link](#))

**Optional modules in English** ([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 D Paterson			
<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 18 <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>	Dr E Jones			
<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 - 2016/7 - August 2016

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> 1 seminar, 1 workshop, 2-hours radio/audio listening, 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>	Team taught			

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>	Team taught			

EN5801 Practical Pedagogy for Creative Writers				
<b>SCOTCAT Credits:</b>	zero	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 MLitt 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 Modern and Contemporary Literature and Culture

### Taught Element:

20 credits: EN5100

80 credits: EN5501, EN5502, EN5511, EN5512

20 credits: Special Topic in English (EN5401 or EN5402); or a module from another English MLitt programme; or an approved postgraduate-level module 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 - 2016/7 - August 2016

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 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>	Dr J Purdon			
<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 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>	Dr J Purdon			
<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 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 J Purdon			
<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 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 J Purdon			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

## English - Modern and Contemporary MLitt & MPhil - 2016/7 - August 2016

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:

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			

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			

[See also all other modules available in the School of English.](#)



## Masters in Romantic /Victorian Studies

*Taught Element:*

20 credits: EN5100

80 credits: EN5200 and EN5204

20 credits: Special Topic in English (EN5401 or EN5402); or a module from another English MLitt programme; or an approved postgraduate-level module 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 promote a detailed exploration of Romantic and Victorian literature and criticism and to equip students with the literary, cultural and historical background necessary to undertake further study in literature from the mid eighteenth to the late nineteenth century.

### 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>	Director of Postgraduate Studies			
<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 18 <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 - Romantic/Victorian Studies MLitt & MPhil - 2016/7 - August 2016

EN5200 Life, Text, Afterlife				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module explores the phases of literary and cultural production and reception, from the lives of authors and cultural figures, through the conditions of publication of their work, to their reception in later works of literature, their histories of publication and dissemination, and the challenges involved in presenting modern editions of their texts. Subjects likely to be covered include Milton's Romantic readers; the adaptation of Jane Austen in the twentieth century; Romantic celebrity culture; periodical publication; the cultural construction of the roles of poet and author; the construction of female subjectivity in letters and fiction; editorial and biographical practice.				
<b>Programme module type:</b>	Compulsory for Romantic/Victorian Studies Postgraduate Programme Optional for students of any other MLitt Postgraduate Programmes			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar (x 10 weeks), 2 consultation hours (x 12 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof N Roe			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

EN5204 Literary History, Politics, Culture				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Academic year:</b>	2016/7			
<b>Planned timetable:</b>	To be arranged.			
This module explores the interaction of literature and its various historical, philosophical, cultural and political contexts in the eighteenth and nineteenth centuries. Many of the authors we study as producers of imaginative literature also engaged in polemical, historical or philosophical writing. Literary works could make decisive and poignant contributions to particular political debates, and the literary sphere itself has its own politics. This module shows how thoroughly literature is connected to the broader discursive and historical world. Topics likely to be covered include Romantic mediaevalism; socialism, aestheticism and decadence; antisemitism and Englishness; the slave trade and literature; the debate between formalist and historicist methodologies; scientific writing in the nineteenth century.				
<b>Programme module type:</b>	Compulsory for Romantic/Victorian Studies Postgraduate Programme Optional for students of any other MLitt Postgraduate Programmes			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar (x 10 weeks), 2 consultation hours (x 12 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr S Manly			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			



Optional modules:

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			

See also all other modules available in the [School of English](#).



## 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>	Director of Postgraduate Studies			
<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 - 2016/7 - August 2016

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 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			

EN5302 Shakespeare and Textual Culture				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged			
<p>This module offers students a thorough grounding in the bibliographical skills required to study Renaissance literature (with an introduction to electronic resources), in tandem with an investigation of contemporary readings of the textual culture of the period. Themes for discussion may include: the relationship between manuscript, orality and print in the early modern period; theories of authorship; the relationship between performance and playtext in the Renaissance theatre; editorial theory.</p>				
<b>Programme module type:</b>	Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme 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. 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 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:

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			

[See also all other modules available in the School of English.](#)

## Masters in Women, Writing and Gender

### Taught Element:

20 credits: EN5100

80 credits: EN5112, EN5115 and EN5116

20 credits: Special Topic in English (EN5401 or EN5402); or a module from another English MLitt programme; or an approved postgraduate-level module 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>	Director of Postgraduate Studies			
<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. 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

## English - Women, Writing and Gender MLitt & MPhil - 2016/7 - August 2016

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 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			

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 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>	TBC			
<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 18 <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:

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			

## English - Women, Writing and Gender MLitt & MPhil - 2016/7 - August 2016

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			

[See also all other modules available in the School of English.](#)

**English - Optional modules for MLitt programmes - 2016/7 - August 2016**

<b>EN5112 Theories and Contexts</b>				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Planned timetable:</b>	To be arranged			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for Women, Writing and Gender Postgraduate Programme 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

<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			
<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 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			

English - Optional modules for MLitt programmes - 2016/7 - August 2016

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 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

EN5200 Life, Text, Afterlife				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module explores the phases of literary and cultural production and reception, from the lives of authors and cultural figures, through the conditions of publication of their work, to their reception in later works of literature, their histories of publication and dissemination, and the challenges involved in presenting modern editions of their texts. Subjects likely to be covered include Milton's Romantic readers; the adaptation of Jane Austen in the twentieth century; Romantic celebrity culture; periodical publication; the cultural construction of the roles of poet and author; the construction of female subjectivity in letters and fiction; editorial and biographical practice.</p>				
<b>Programme module type:</b>	Compulsory for Romantic/Victorian Studies Postgraduate Programme Optional for students of any other MLitt Postgraduate Programmes			
<b>Anti-requisite(s):</b>	EN5201, EN5203			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar (x 10 weeks), 2 consultation hours (x 12 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof N Roe			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

## English - Optional modules for MLitt programmes - 2016/7 - August 2016

EN5204 Literary History, Politics, Culture				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module explores the interaction of literature and its various historical, philosophical, cultural and political contexts in the eighteenth and nineteenth centuries. Many of the authors we study as producers of imaginative literature also engaged in polemical, historical or philosophical writing. Literary works could make decisive and poignant contributions to particular political debates, and the literary sphere itself has its own politics. This module shows how thoroughly literature is connected to the broader discursive and historical world. Topics likely to be covered include Romantic mediaevalism; socialism, aestheticism and decadence; antisemitism and Englishness; the slave trade and literature; the debate between formalist and historicist methodologies; scientific writing in the nineteenth century.</p>				
<b>Programme module type:</b>	Compulsory for Romantic / Victorian Studies Postgraduate programme. Optional for students of any other MLitt Postgraduate Programmes			
<b>Anti-requisite(s):</b>	EN5202, EN5203			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar (x 10 weeks), 2 consultation hours (x 12 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr S Manly			
<b>Lecturer(s)/Tutor(s):</b>	various			

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 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			

## English - Optional modules for MLitt programmes - 2016/7 - August 2016

EN5302 Shakespeare and Textual Culture				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module offers students a thorough grounding in the bibliographical skills required to study Renaissance literature (with an introduction to electronic resources), in tandem with an investigation of contemporary readings of the textual culture of the period. Themes for discussion may include: the relationship between manuscript, orality and print in the early modern period; theories of authorship; the relationship between performance and playtext in the Renaissance theatre; editorial theory.</p>				
<b>Programme module type:</b>	Compulsory for Shakespeare and Renaissance Literary Culture Postgraduate Programme 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			

EN5303 Renaissance Popular Culture				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<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 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			

## English - Optional modules for MLitt programmes - 2016/7 - August 2016

<b>EN5304 Learned Culture: Rhetoric, Politics and Identity</b>				
<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 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			

<b>EN5401 Special Topic in English Studies 1</b>				
<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			

## English - Optional modules for MLitt programmes - 2016/7 - August 2016

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 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 J Purdon			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			



## English - Optional modules for MLitt programmes - 2016/7 - August 2016

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 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 J Purdon			
<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 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 J Purdon			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

English - Optional modules for MLitt programmes - 2016/7 - August 2016

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 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 J Purdon			
<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 this session:

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 Dyer, Prof D Iordanova, Dr E Girelli, Dr Donaldson, Dr L Torchin			

## Film Studies - MLitt & MPhil - 2016/7 - August 2016

FM5103 Film Technologies and Aesthetics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	12.00 noon - 2.00 pm Tue (Screening 2.30 pm - 4.30 pm Tue)			
<p>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.</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 film screening.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Jain			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Jain			

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.			
<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 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 this session:

FM4106 War and Cinema				
<b>SCOTCAT Credits:</b>	30	SCQF Level 10	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon - 2.00 pm Tue, 7.00 pm - 9.30 pm Mon (screenings)			
<p>The war film is one of the great modes of cinematic expression, with outstanding examples of the genre stretching from the early silent period to the contemporary era. In this module, we will explore the chronological history of the War Film, beginning with reenactments and actualities from the Spanish-American War, proceeding through treatments of World War I such as All Quiet on the Western Front, and continuing with films such as Apocalypse Now, Waltz with Bashir, and The Hurt Locker. Students will gain knowledge and awareness of the links between the history of cinema and the development of optical weaponry, the different ways the body of the soldier has been represented in war, and the shaping of cultural memory in film.</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>	Prof R Burgoyne			
<b>Lecturer(s)/Tutor(s):</b>	Prof R Burgoyne			

FM4118 Film and Fashion				
<b>SCOTCAT Credits:</b>	30	SCQF Level 10	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Mon, 9.30 am - 12.00 noon Mon (screening)			
<p>The module explores two aspects of the interaction between film and fashion: On the one hand, it looks at the ways fashion intersects with film in the area of costume design and general approaches to style. On the other, it surveys the variety of representations that the fashion world has enjoyed in global cinema. It looks at matters of taste, style, glamour, creativity, celebrity, global fashion hubs and gurus, consumerism, but also at the way fashion is produced, managed, and sold, from glossy magazines and advertising through to luxury brands and sweat-shops. Students will have the opportunity to view and discuss documentary and feature films made by a host of important international directors (including, but not limited to Wim Wenders, Albert Maysles, Jun Ichikawa, Bertrand Bonello, Tom Ford, Ben Stiller, Robert Altman, Nora Ephron, and Gillian Armstrong), as well as to research and write on these matters. The discussions will also touch on matters of fashion photography and film.</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>	Prof D Iordanova			
<b>Lecturer(s)/Tutor(s):</b>	Prof D Iordanova			

## Film Studies - MLitt & MPhil - 2016/7 - August 2016

FM4207 British Cinemas: Conventions, Subversions, and Outsiders				
<b>SCOTCAT Credits:</b>	30	SCQF Level 10	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Tue, 4.30 pm - 7.00 pm Tue (screenings)			
<p>This module approaches British cinema as a site of cultural and formal multiplicity, focusing on its shifting balance between tradition and rebellion, belonging and alienation. The module raises questions about representation and inclusion, as well about formal and narrative strategies. Students will have the opportunity for independent research, by writing a case study of their chosen British star. Weekly topics may include the problematic emergence of queer identities (<i>The Killing of Sister George</i>, Robert Aldrich, 1968), the ambivalent portrayal of British spies and defectors (<i>Another Country</i>, Marek Kaniévski, 1984), British filmmaking outside Britain (<i>The Third Man</i>, Carol Reed, 1949), the modernist mockery of British tradition (<i>The Draughtsman's Contract</i>, Peter Greenaway, 1982), and a British star case study.</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 E Girelli			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Girelli			

FM4308 Film Sound				
<b>SCOTCAT Credits:</b>	30	SCQF Level 10	<b>Semester:</b>	2
<b>Planned timetable:</b>	10.00 am - 12.00 noon Tue, 4.30 - 7.00 pm Mon (screening)			
<p>Film Sound challenges our critical focus on the film image and explores the expressive contribution of sound to film. Sound has the capacity to shape environment, mood and ultimately the ways in which we engage with film, thus making it a vital consideration in critical and aesthetic approaches. The module engages with central critical topics representation, aesthetics, affect and technology - and with the production of sound (through case studies of selected practitioners). The module utilises innovative ways of thinking about sound to help students gain a detailed understanding of the different elements of sound in film. The topic is explored through a range of case studies and draws on a diverse mix of sources, including production materials and interviews with industry personnel. The emphasis on the work of practitioners will help confront and nuance assumptions about watching and making film.</p>				
<b>Programme module type:</b>	Optional for MLitt in Film Studies if running in Semester 2			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures (x 11 weeks) 3-hour film viewing (x 11 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr L Donaldson			
<b>Lecturer(s)/Tutor(s):</b>	Dr L Donaldson			

## 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):*

**Sustainable Development** ([link](#))

#### **Postgraduate Diploma:**

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

**Human Geography** ([link](#))

**Sustainable Development** ([link](#))

**Sustainable Development and Energy** ([link](#))

#### **MSc:**

**Sustainable Energy** ([link](#))

**Sustainable Development and Energy** ([link](#))

**Sustainable Development and Environmental Economics** ([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.*





## Master of Research in Human Geography

### Programme Requirements

#### Taught Element:

120 credits: GG5000, GG5001, GG5002, GG5003, SS5101, SS5102, SS5103, SS5104

#### MRes:

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>	TBC			

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>	TBC			

## Geography & Sustainable Development - Human Geography MRes - 2016/7 - August 2016

SS5101 Being a Social Scientist				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7 & 2017/8			
<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 Compulsory for various MRes Programmes. Optional for Research Methods in Psychology (MSc), for Sustainable Development and Environmental Economics (MSc), for Sustainable Development (MSc), for Sustainable Development and Energy (MSc).			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Kesby and TBC			

SS5104 Quantitative Research in Social Science				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7 & 2017/8			
<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). Compulsory for MRes in Human Geography. Compulsory for Research Methods in Psychology (MSc) Compulsory for various other MRes Programmes. Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc)			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Mr J Ales			

**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. 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> 2 introductory lectures followed by supervisory meetings for preparation of course work.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	TBC			

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. Optional for Sustainable Development Postgraduate Taught Programme.			
<b>Co-requisite(s):</b>	SS5103 or 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>	TBC			

## Geography & Sustainable Development - Human Geography MRes - 2016/7 - August 2016

SS5102 Philosophy and Methodology of the Social Sciences				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	3.00 pm - 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 Optional for Research Methods in Psychology (MSc) Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc)			
<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 M Kesby			
<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>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	10.00 am - 12.00 noon Tue			
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 Compulsory for Research Methods in Psychology (MSc) Compulsory for various other MRes Programmes Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc)			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

**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> Up to 8 hours of guided study per student over semester 2 and the summer (one -to-one supervision, by arrangement with supervisor).			
<b>Assessment pattern:</b>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Prof N Laurie			
<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.

#### Postgraduate Diploma: *(this is also the Taught element of the MSc programme):*

60 credits: SD5001 and SD5003

60 credits: 5000-level modules chosen from various schools/programmes in consultation with your advisor (permission given by relevant schools). Advisors may occasionally give permission 'dip down' to take up to 30 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:*

75 credits: SD5001, SD5003 and SS5101

45 credits from: SS5102 - SS5104. plus module(s) from other schools/programmes chosen in consultation with your advisor (permission given by relevant schools). Advisors may occasionally give permission 'dip down' to take up to 30 credits at 3000 or 4000 level.

120 credits from the MRes Taught Element plus SD5099 (60-credit Dissertation module)

**Partner subjects:** In addition to SD coded options modules, students may, with the permission of their advisor and the schools concerned, also 'dip across' to some modules in Earth Sciences, Geography, History, Management and Medicine (details below).

**Compulsory Semester 1 modules:**

SD5001 Interrogating Sustainable Development				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	2.00 pm - 5.00 pm Tue			
<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, MSc Sustainable Development and Energy and MSc Sustainable Development and Environmental Economics			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 x 3-hour seminar			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr D McCauley			

**Compulsory Semester 1 module for MRes:**

SS5101 Being a Social Scientist				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7 & 2017/8			
<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>	<p>Compulsory for MRes in Human Geography and MRes in Sustainable Development.</p> <p>Compulsory for various MRes Programmes outwith the School.</p> <p>Optional for Research Methods in Psychology (MSc), for Sustainable Development and Environmental Economics (MSc), for Sustainable Development (MSc), for Sustainable Development and Energy (MSc).</p>			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Kesby and TBC			



**Compulsory Semester 2 module:**

<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 two master class review essays in specialised areas 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 Development and Energy Strongly recommended for MSc Sustainable Development and Environmental Economics			
<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 D McCauley			

**Compulsory module for MSc and MRes - Whole Year:**

<b>SD5099 Dissertation in Sustainable Development</b>				
<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			

Optional modules:

SD5023 Economics for the Environment				
<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 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>	Compulsory for MSc Sustainable Development and Environmental Economics Optional for the Postgraduate Diploma, MSc and MRes Sustainable Development and MSc Sustainable Development and Energy			
<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			

SD5101 Development and Environment				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Wed			
<p>The world has changed dramatically since the early 1700s, and the onset of modern economic growth starting and the industrial revolution. However, despite rapid advancements the world today is divided between high-income, middle-income and low-income countries. This module takes a broad perspective on economic development and how economic development interacts with the environment. The module introduces key concepts in economic development and natural resource management.</p>				
<b>Programme module type:</b>	Compulsory for MSc Sustainable Development and Environmental Economics Optional for MSc Sustainable Development Optional for MSc Sustainable Development and Energy			
<b>Anti-requisite(s):</b>	SD3224			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures (x 11 weeks)			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr E McLaughlin			

SD5102 Public Policy and the Environment				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Planned timetable:	2.00 pm - 4.00 pm Thu			
This module is seminar based and will introduce students to advanced topics in environmental economics. It follows on from SD5023 and SD5101.				
Programme module type:	Compulsory for MSc Sustainable Development and Environmental Economics Optional for MSc Sustainable Development Optional for MSc Sustainable Development and Energy			
Co-requisite(s):	SD5023			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar (x 11 weeks)			
Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr E McLaughlin			
Lecturer(s):	Dr E McLaughlin			

### Further optional modules are available from partner Schools/Departments:

**Partner subjects:** In addition to SD coded options modules, students may, with the permission of their advisor and the schools concerned, also 'dip across' to some modules in Earth Sciences, Geography, History, Management and Medicine (details below).

### Earth Sciences:

EG3020 Global Climate Change				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

ES5011 Water in the Environment				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

ES5050 Earth's Greatest Hits				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

ID5011 Geographic Information Systems for Environmental Management				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

### Geography:

GG5227 Introduction to Geographic Information Science				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1

SS5101 Being a Social Scientist				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

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SS5102 Philosophy and Methodology of the Social Sciences				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

SS5103 Qualitative Methods in Social Research				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

SS5104 Quantitative Research in Social Science				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

SG4228 Advanced Topics in Geographic Information Science (GISci)				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

### History:

MO5223 Disease and Environment (c.1500 - c.2000) (20)				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1

### Management:

MN5513 Ethics, Organisations and Management				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1

MN5311 Responsible Investment				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2

MN5821 Managing Non-Governmental Organisations				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2

### Medicine:

MD5201 Issues in Global Health				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

MD5202 Principles in Implementation Science				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

MD5203 Ten Global Health Problems				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

<b>MD5204 Globalisation and Health</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

  

<b>MD5205 Inequalities and Inequities in Global Health</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

  

<b>MD5206 Evidence Synthesis for Global Health Policy, Programming, and Practice</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2



## Masters in Sustainable Development and Energy also Postgraduate Diploma

This is a double Masters programme: the first taken at St Andrews for a year, the second at the Moscow State Institution of International Relations (MGIMO) which involves internship placements at an energy company in Moscow.

### Programme Requirements

**Postgraduate Diploma:** (*this is also the Taught element of the MSc programmes*):

60 credits: SD5001 and SD5003

60 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).

### MSc:

120 credits, as for the Postgraduate Diploma (taught element)- plus SD5299

**Partner subjects:** In addition to SD coded options modules, students may, with the permission of their advisor and the schools concerned, also 'dip across' to some modules in Earth Science, Geography, History, Management and Medicine (details below).

### Compulsory module - Semester 1:

SD5001 Interrogating Sustainable Development				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	2.00 pm - 5.00 pm Tue			
<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, MSc Sustainable Development and Energy and MSc Sustainable Development and Environmental Economics.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 x 3-hour seminar			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr D McCauley			

**Compulsory module - Semester 2:**

<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 two master class review essays in specialised areas 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 Development and Energy Strongly recommended for MSc Sustainable Development and Environmental Economics			
<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 D McCauley			

**Compulsory Module for MSc:**

<b>SD5299 Dissertation in Sustainable Development and Energy</b>				
<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 the MSc Sustainable Development and Energy			
<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 modules:

SD5023 Economics for the Environment				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	11.00 am - 1.00 pm Wed			
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.				
<b>Programme module type:</b>	Compulsory for MSc Sustainable Development and Environmental Economics Optional for the Postgraduate Diploma, MSc and MRes Sustainable Development and MSc Sustainable Development and Energy			
<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			

SD5101 Development and Environment				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Wed			
The world has changed dramatically since the early 1700s, before the onset of modern economic growth starting and the industrial revolution. However, despite rapid advancements the world today is divided between high-income, middle-income and low-income countries. This module takes a broad perspective on economic development and how economic development interacts with the environment. The module introduces key concepts in economic development and natural resource management.				
<b>Programme module type:</b>	Compulsory for MSc Sustainable Development and Environmental Economics Optional for MSc Sustainable Development Optional for MSc Sustainable Development and Energy			
<b>Anti-requisite(s):</b>	SD3224			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures (x 11 weeks)			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr E McLaughlin			

SD5102 Public Policy and the Environment				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
Planned timetable:	2.00 pm - 4.00 pm Thu			
This module is seminar based and will introduce students to advanced topics in environmental economics. It follows on from SD5023 and SD5101.				
Programme module type:	Compulsory for MSc Sustainable Development and Environmental Economics Optional for MSc Sustainable Development Optional for MSc Sustainable Development and Energy			
Co-requisite(s):	SD5023			
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminar (x 11 weeks)			
Assessment pattern:	Coursework = 100%			
Module Co-ordinator:	Dr E McLaughlin			
Lecturer(s):	Dr E McLaughlin			

### Further optional modules are available from partner Schools/Departments:

**Partner subjects:** In addition to SD coded options modules, students may, with the permission of their advisor and the schools concerned, also 'dip across' to some modules in Earth Sciences, Geography, History, Management and Medicine (details below).

### Earth Sciences:

EG3020 Global Climate Change				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

ES5011 Water in the Environment				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

ES5050 Earth's Greatest Hits				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

ID5011 Geographic Information Systems for Environmental Management				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

### Geography:

GG5227 Introduction to Geographic Information Science				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1

SS5101 Being a Social Scientist				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

**SS5102 Philosophy and Methodology of the Social Sciences**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
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**SS5103 Qualitative Methods in Social Research**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
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**SS5104 Quantitative Research in Social Science**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
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**SG4228 Advanced Topics in Geographic Information Science (GISci)**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
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**History:**

**MO5223 Disease and Environment (c.1500 - c.2000) (20)**

SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
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**Management:**

**MN5513 Ethics, Organisations and Management**

SCOTCAT Credits:	20	SCQF Level 11	Semester:	1
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**MN5311 Responsible Investment**

SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
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**MN5821 Managing Non-Governmental Organisations**

SCOTCAT Credits:	20	SCQF Level 11	Semester:	2
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**Medicine:**

**MD5201 Issues in Global Health**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
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**MD5202 Principles in Implementation Science**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
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**MD5203 Ten Global Health Problems**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
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**MD5204 Globalisation and Health**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
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**MD5205 Inequalities and Inequities in Global Health**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
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**MD5206 Evidence Synthesis for Global Health Policy, Programming, and Practice**

SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
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## Masters in Sustainable Development and Environmental Economics

### Programme Requirements

#### Taught Element:

30 credits: SD5001

60 credits: SD5101, SD5102, SD5023

30 credits: SD5003 is not compulsory but strongly recommended, or module(s) from other schools/programmes chosen in consultation with your advisor (permission given by relevant schools). Advisors may occasionally give permission 'dip down' to take up to 30 credits at 3000 or 4000 level.

#### MSc:

120 credits, as for the Postgraduate Diploma (taught element), plus SD5099 (60-credit Dissertation module)

**Partner subjects:** In addition to SD coded options modules, students may, with the permission of their advisor and the schools concerned, also 'dip across' to some modules in Geography, History, Management and Medicine (details below).

### Compulsory modules - Semester 1:

SD5001 Interrogating Sustainable Development					
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1	
<b>Planned timetable:</b>	2.00 pm - 5.00 pm Tue				
<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, MSc Sustainable Development and Energy and MSc Sustainable Development and Environmental Economics				
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 x 3-hour seminar				
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%				
<b>Module Co-ordinator:</b>	Dr D McCauley				

SD5101 Development and Environment				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Wed			
<p>The world has changed dramatically since the early 1700s, and the onset of modern economic growth and the industrial revolution. However, despite rapid advancements, the world today is divided between high-income, middle-income and low-income countries. This module takes a broad perspective on economic development and how economic development interacts with the environment. The module introduces key concepts in economic development and natural resource management. We also study the insights which economics provides on the relationship between economic growth and environmental quality, and the measurement of sustainability.</p>				
<b>Programme module type:</b>	Compulsory for MSc Sustainable Development and Environmental Economics Optional for MSc Sustainable Development Optional for MSc Sustainable Development and Energy			
<b>Anti-requisite(s):</b>	SD3224			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures (x 11 weeks)			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr E McLaughlin			
<b>Lecturer(s):</b>	Dr E McLaughlin and Prof N Hanley			

## Compulsory modules - Semester 2:

SD5023 Economics for the Environment				
<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 introduces students to the contributions that environmental economics can make to help us understand and manage a wide range of environmental problems including the economics of pollution, climate change economics and non-market valuation. No prior knowledge of economics is presumed, but a background in economics is an advantage, and a course textbook is available which is co-written by one of the course lecturers.</p>				
<b>Programme module type:</b>	Compulsory for MSc Sustainable Development and Environmental Economics Optional for the Postgraduate Diploma, MSc and MRes Sustainable Development and MSc Sustainable Development and Energy			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 x 2-hour seminar			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Prof N Hanley			

SD5102 Public Policy and 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			
This module is seminar based and will introduce students to advanced topics in environmental economics. It follows on from SD5023 and SD5101.				
<b>Programme module type:</b>	Compulsory for MSc Sustainable Development and Environmental Economics Optional for MSc Sustainable Development Optional for MSc Sustainable Development and Energy			
<b>Co-requisite(s):</b>	SD5023			
<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 E McLaughlin			
<b>Lecturer(s):</b>	Dr E McLaughlin			

### Compulsory module for MSc - 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			
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.				
<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			

**Optional modules are available from partner Schools/Departments:**

**Partner subjects:** In addition to SD coded options modules, students may, with the permission of their advisor and the schools concerned, also 'dip across' to some modules in Geography, History, Management and Medicine (details below).

**Geography:**

<b>GG5227 Introduction to Geographic Information Science</b>				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1

<b>SS5101 Being a Social Scientist</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

<b>SS5102 Philosophy and Methodology of the Social Sciences</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

<b>SS5103 Qualitative Methods in Social Research</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

<b>SS5104 Quantitative Research in Social Science</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

<b>SG4228 Advanced Topics in Geographic Information Science (GISci)</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

**History:**

<b>MO5223 Disease and Environment (c.1500 - c.2000) (20)</b>				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1

**Management:**

<b>MN5513 Ethics, Organisations and Management</b>				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1

<b>MN5311 Responsible Investment</b>				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2

<b>MN5821 Managing Non-Governmental Organisations</b>				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2



**Medicine:**

<b>MD5201 Issues in Global Health</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

<b>MD5202 Principles in Implementation Science</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

<b>MD5203 Ten Global Health Problems</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

<b>MD5204 Globalisation and Health</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

<b>MD5205 Inequalities and Inequities in Global Health</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

<b>MD5206 Evidence Synthesis for Global Health Policy, Programming, and Practice</b>				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

**Sustainable Development:**

<b>SD5003 Master Class in Sustainable Development</b>				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	2



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

**Early Modern History** ([link](#))

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

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

**Iranian Studies** ([link](#))

**Legal and Constitutional History** ([link](#))

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

**Mediaeval Studies** (*see section 17*)

**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 - 2016/7 - August 2016

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 One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme. 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 Clark			
<b>Lecturer(s)/Tutor(s):</b>	By arrangement			

### 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			

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			

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			

## History - The Book - MLitt - 2016/7 - August 2016

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 Intellectual History, Modern History, Transnational, Global and Spatial History Postgraduate Programmes.</p> <p>Optional for The Book: History and Techniques of Analysis, Central and East European Studies, Early Modern History, Environmental History, Reformation Studies 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			



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			

**Further examples of optional modules which might be of interest (consult the Programme Coordinator for comprehensive list):**

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			

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, 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			

## Masters in Central and East European Studies

### Also Postgraduate Diploma and MPhil

Programme Coordinator: Dr Tomasz Kamusella

#### **Taught Element:**

120 credits: 40 credits from MO5810 and MO5811

80 credits from GM5011, IR5227, MO5301, MO5402, MO5503, MO5602, MO5606, MO5609, MO5610, MO5621, MO5622, RU5011, RU5014

#### **MLitt:**

120 credits as for the Taught Element plus one of IR5099 or MO5099

#### **MPhil:**

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

### Compulsory modules:

MO5810 Masterclass in Central and East European Studies 1				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>The Masterclass is a compulsory, interdisciplinary module designed as an introduction to the study of Central and Eastern Europe, past and present. In addition to a basic grounding in the history of modern and contemporary Central and Eastern Europe (including Russia), the module draws on the expertise of colleagues in International Relations, Film Studies, Modern Languages and Literature, and Art History. The goal is to provide students with an opportunity both to broaden their knowledge through a variety of research methods, and also to identify research questions for themselves, which they may wish to explore in some of the more specialized Optional Modules, or, indeed, build upon as part of their dissertation projects.</p>				
<b>Programme module type:</b>	Compulsory for Central and East European Studies Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour seminar (x 6 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr T Kamusella			
<b>Lecturer(s)/Tutor(s):</b>	various			

MO5811 Masterclass in Central and East European Studies 2				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>The Masterclass is a compulsory, interdisciplinary module designed as an introduction to the study of Central and Eastern Europe, past and present. In addition to a basic grounding in the history of modern and contemporary Central and Eastern Europe (including Russia), the module draws on the expertise of colleagues in International Relations, Film Studies, Modern Languages and Literature, and Art History. The goal is to provide students with an opportunity both to broaden their knowledge through a variety of research methods, and also to identify research questions for themselves, which they may wish to explore in some of the more specialized Optional Modules, or, indeed, build upon as part of their dissertation projects.</p>				
<b>Programme module type:</b>	Compulsory for Central and East European Studies Postgraduate Programme			
<b>Pre-requisite(s):</b>	MO5810			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour seminar (x 6 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr T Kamusella			
<b>Lecturer(s)/Tutor(s):</b>	various			

### Optional 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>	Compulsory for German Studies Postgraduate Programme. Optional for Central and East European Studies, German and Comparative Literature, and Crossways in Cultural Narratives Mundus Postgraduate Programmes. Optional for other MLitt students in outside Modern Languages with permission of both Schools.			
<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			

IR5227 Conflict, Security and Democracy in the Greater Caucasus (40)				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<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 Central and East European Studies Postgraduate Programme.			
<b>Anti-requisite(s):</b>	IR5527			
<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 R Fawn			
<b>Lecturer(s)/Tutor(s):</b>	Prof R Fawn			

MO5301 History of Imperial Russia 1815-1917				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module examines the final one hundred years of Imperial rule. Beginning with the defeat of Napoleon, it explores social, economic and political change, the emergence of a 'public sphere' in the second half of the nineteenth century, and the rise of opposition movements and ideologies culminating with the collapse of Tsarism in February 1917. In addition, the module will address aspects of culture (notably the 'Golden' and 'Silver' Ages of Russian literature and art), particularly in terms of its role as a 'barometer' of social change at home, but also as a starting point for exploring aspects of Russia's cultural and political relations with her European neighbours.</p>				
<b>Programme module type:</b>	Optional module for Central and East European 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 F Nethercott			
<b>Lecturer(s)/Tutor(s):</b>	Dr F Nethercott			

## History - Central and East European Studies MLitt - 2016/7 - August 2016

MO5402 The Soviet Union (1917-1991)				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
The emergence and development of the Soviet Union is traced from the Bolshevik Revolution of October 1917, via the period of Stalins dictatorship and the leaderships of Khrushchev and Brezhnev, up to the end of the Gorbachev era which culminated in the dissolution of the Union in 1991. The course studies interlinked political, ideological, social, economic and cultural themes. The role of the Soviet Union on the international stage is also examined.				
<b>Programme module type:</b>	Optional for Central and East European 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 F Nethercott			
<b>Lecturer(s)/Tutor(s):</b>	Dr F Nethercott			

MO5503 Central and Eastern Europe since 1945				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
The collapse of the Soviet sphere of influence in Eastern Europe during 1989, and the subsequent disintegration of the USSR itself, have been among the most dramatic developments of recent years. The pattern of Soviet domination of this region is traced from the end of the Second World War through an examination of both the common and individual responses to this in the nations concerned. Countries studied include former East Germany, Poland, former Czechoslovakia, Hungary, Romania, Bulgaria and former Yugoslavia. Developments after 1989 are also examined.				
<b>Programme module type:</b>	Optional for Central and East European 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 T Kamusella			

<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>	<p>Compulsory for Intellectual History, Modern History, Transnational, Global and Spatial History Postgraduate Programmes.</p> <p>Optional for The Book: History and Techniques of Analysis, Central and East European Studies, Early Modern History, Environmental History, Reformation Studies 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>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			

## History - Central and East European Studies MLitt - 2016/7 - August 2016

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			

MO5610 Themes in Russian Nineteenth- and Twentieth-Century Intellectual History				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module serves as an introduction to Russian intellectual culture for postgraduate students taking a taught MLitt in Central and East European Studies. Based on a close reading of sources (in translation and/or in Russian), it analyses a number of key themes in Russian thought with reference to the socio-political contexts in which they first arose as well as their subsequent transformation in the Soviet era. The module also explores the ways in which some of the leit-motifs of pre-Revolutionary intellectual culture have more recently been recovered as a 'resource' by intellectuals and public figures in endeavors to re-articulate the 'authentic' nature of Russian culture in the aftermath of communism.</p>				
<b>Programme module type:</b>	Optional for Central and East European Studies 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 F Nethercott			
<b>Lecturer(s)/Tutor(s):</b>	Dr F Nethercott			



<b>MO5621 History in the Making: Theories, Approaches and Practice 1</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>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.</p>				
<b>Programme module type:</b>	MO5621 or MO5151 compulsory for Environmental History Postgraduate Programme, Compulsory for Modern History Postgraduate Programme. Optional for Central and East European Studies Postgraduate Programme.			
<b>Anti-requisite(s):</b>	MO5601			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	TBC			

<b>MO5622 History in the Making: Theories, Approaches and Practice 2</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>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.</p>				
<b>Programme module type:</b>	MO5622 or MO5152 compulsory for Environmental History Postgraduate Programme, Compulsory for Modern History Postgraduate Programme. Optional for Central and East European Studies Postgraduate Programme.			
<b>Pre-requisite(s):</b>	MO5621	<b>Anti-requisite(s):</b>	MO5601	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar			
<b>Assessment pattern:</b>	Coursework (1 essay) = 100%			
<b>Module Co-ordinator:</b>	TBC			

## History - Central and East European Studies MLitt - 2016/7 - August 2016

RU5011 New Approaches to the Russian Literary Canon (40)				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Combining a theoretical framework with a number of case studies, this module will explore how the 'Russian literary canon' has been constructed over the past two hundred years. Students will have the opportunity to study a number of works by Russian writers now considered 'canonical' (e.g. Aleksandr Pushkin, Fedor Dostoevsky, Andrei Platonov, Liudmila Ulitskaia), in depth as well as to consider texts that have fallen outside the privileged field of the 'literary', whether for reasons of production, reception, distribution, or promotion. In addition, students will be encouraged to consider how various institutions create and perpetuate notions of canonicity. This module will be taught jointly by members of the Russian Department and will draw on their fields of expertise. It will also take into account the backgrounds of enrolled students. Students taking the module as part of the MLitt in Russian Studies will be expected to complete readings in the original.</p>				
<b>Programme module type:</b>	<p>Compulsory for Russian Studies Postgraduate Programme.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages, including the MLitt in Central and East European Studies, with permission of both Schools.</p>			
<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>	Dr V Donovan			

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>This module offers students the opportunity to draw on the expertise of the Department of Russian in order to explore a topic of their choice in depth. Potential subjects of study include: the English Novel in Russia; Issues in Russian Cultural Memory; Narratology and the Short Story; Russian Crime Fiction; Russian Romantic Prose; Russian and Polish Modernism; Russian Formalism in context; the Soviet Writing Self; Socialist Realism Inside and Out; Andrei Platonov; Race and Ethnicity in Russian and Russophone Literature; Russian Literary Peripheries; and Russian Cinema in the Putin Era. Students taking the module as part of the MLitt in Russian Studies will be expected to complete readings in the original.</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, including the MLitt in Central and East European Studies, with permission of both Schools.</p>			
<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 Finer			

## 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

**MPhil:**

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 D Allan			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

## History - Early Modern History MLitt & MPhil 1 2016/7 - August 2016

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 One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme. 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 Clark			
<b>Lecturer(s)/Tutor(s):</b>	By arrangement			

### 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>Module Co-ordinator:</b>	Dr D Allan			

<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>MO5033 Paleography and Manuscript Studies</b>				
<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, Reformation Studies, 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>	Prof G Rowlands			

MO5006 Society and Religious Change in Sixteenth-Century France				
<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 detailed examination of the development and near disintegration of the new French nation state in the sixteenth century. It examines how France faced the two major challenges of the age: the trend towards more centralised state-building, stimulated in part by the changing nature of warfare in the sixteenth century and the urge on the part of European monarchies to create a new monarchy; and the challenge posed by the divisions of European Christendom resulting from the Protestant Reformation. A central question to be answered is why France succeeded in meeting the first challenge so successfully, as epitomised by the 'Renaissance' monarchy of Francis I, but then collapsed so weakly in the face of the growth of Calvinism in the second half of the century.</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> Fortnightly tutorial and other teaching as appropriate.			
<b>Assessment pattern:</b>	Coursework = 100%			
<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>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr B Heal			

MO5009 Law, Justice and Community: Court Records and British Society (1400 - 1800)				
<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>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof R A Houston			

## History - Early Modern History MLitt & MPhil 1 2016/7 - August 2016

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) (40)				
<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			



## History - Early Modern History MLitt & MPhil - 2016/7 - August 2016

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			

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 Intellectual History, Modern History, Transnational, Global and Spatial History Postgraduate Programmes.</p> <p>Optional for The Book: History and Techniques of Analysis, Central and East European Studies, Early Modern History, Environmental History, Reformation Studies 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			

## History - Early Modern History MLitt & MPhil 1 2016/7 - August 2016

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			

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			



## Masters in Environmental History

Programme Coordinator: Dr John Clark

### **Taught Element:**

40 credits: (MO5621 and MO5622) or (MO5151 and MO5152)

a minimum of a further 40 (and a maximum of 80) credits chosen from (EH5003 or EH5102), (MO5023 or MO5223), (EH5004 or EH5101);

if necessary, a further 40 credits chosen from (EH5003 or EH5102), (EH5004 or EH5101), GE5051, (MO5223 or MO5023), MO5151, MO5152, MO5161, (MO5602 or MO5609), MO5604, MO5605, MO5606, MO5613, MO5630

### **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			

## History - Environmental History MLitt & MPhil - 2016/7 - August 2016

### EITHER:

MO5621 History in the Making: Theories, Approaches and Practice 1				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<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>	MO5621 or MO5151 compulsory for Environmental History Postgraduate Programme, Compulsory for Modern History Postgraduate Programme. Optional for Central and East European Studies Postgraduate Programme.			
<b>Anti-requisite(s):</b>	MO5601			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	TBC			

### AND:

MO5622 History in the Making: Theories, Approaches and Practice 2				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<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>	MO5622 or MO5152 compulsory for Environmental History Postgraduate Programme, Compulsory for Modern History Postgraduate Programme. Optional for Central and East European Studies Postgraduate Programme.			
<b>Pre-requisite(s):</b>	MO5621	<b>Anti-requisite(s):</b>	MO5601	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar			
<b>Assessment pattern:</b>	Coursework (1 essay) = 100%			
<b>Module Co-ordinator:</b>	TBC			

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.			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for Transnational, Global and Spacial History Postgraduate Programme. 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.			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for Transnational, Global and Spacial History Postgraduate Programme. 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			

**Optional modules:**

<b>EH5003 Environmental History: Nature and the Western World (1800 - 2000)</b>				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<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 Postgraduate Taught 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 J Clark			

**OR**

<b>EH5102 Environmental History: Nature and the Western World (1800-2000) (20)</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
Environmental history is the study of human interaction with the natural world through time. Prior to the nineteenth century, nature was seen as an integral part of history. Similarly, this module encourages students to view nature not as a static backdrop, but as a vital element of history. Focusing principally upon Britain and North America from the eighteenth century to present, this module explores the history of human interaction with the natural world. It seeks to understand how politics and religious beliefs have influenced answers to persistent questions - such as, How old is the earth? What is an animal? What is a human? What is life? Moreover, the complex mixture of global exploration and trade, agricultural and industrial innovation, and burgeoning population will be assessed in relation to concerns over the degradation of the environment.				
<b>Programme module type:</b>	Optional for MLitts in Environmental History, Modern and Contemporary Literature and Culture, and MSc in Sustainable Development.			
<b>Anti-requisite(s):</b>	EH5003, MO3314			
<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 Clark			



<b>EH5004 Environmental Disasters: Crisis, Catastrophe, and Risk in the Modern World (1755 to Present) (40)</b>				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>In the early twenty-first century, the fate of 'civilisation' seems caught between the inevitability of progress and the unavoidability of collapse. Increasingly, this fate has been tied to human interaction with the non-human natural world. This module offers helpful historical insight into the existential crises precipitated by human interaction with the natural world. But both history and evolution can be characterised as combinations of gradual and sudden change. Through the study of past environmental disasters, this module seeks to understand historical continuities and discontinuities. Bookended by the Lisbon earthquake of 1755 and Hurricane Katrina of 2005, the module explores the nature of 'natural' disasters; and the social and cultural factors that shaped and framed them. Moreover, it considers the ways in which an increasingly industrial, urban, and 'global' world may have generated distinctly 'modern' risks.</p>				
<b>Programme module type:</b>	Optional for Environmental History, Modern History, and Transnational, Global and Spatial History, and Sustainable Development.			
<b>Anti-requisite(s):</b>	EH5101			
<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 Clark			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Clark			

OR

<b>EH5101 Environmental Disasters: Crisis, Catastrophe, and Risk in the Modern World (1755 to Present) (20)</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>In the early twenty-first century, the fate of 'civilisation' seems caught between the inevitability of progress and the unavoidability of collapse. Increasingly, this fate has been tied to human interaction with the non-human natural world. This module offers helpful historical insight into the existential crises precipitated by human interaction with the natural world. But both history and evolution can be characterised as combinations of gradual and sudden change. Through the study of past environmental disasters, this module seeks to understand historical continuities and discontinuities. Bookended by the Lisbon earthquake of 1755 and Hurricane Katrina of 2005, the module explores the nature of 'natural' disasters; and the social and cultural factors that shaped and framed them. Moreover, it considers the ways in which an increasingly industrial, urban, and 'global' world may have generated distinctly 'modern' risks.</p>				
<b>Programme module type:</b>	Optional for Environmental History MLitt and Sustainable Development MSc Postgraduate Programmes			
<b>Anti-requisite(s):</b>	EH5004			
<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 Clark			

## History - Environmental History MLitt & MPhil - 2016/7 - August 2016

MO5023 Disease and Environment (c.1500 - c.2000) (40)				
<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> 2-hour seminar.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Clark			

OR

MO5223 Disease and Environment (c.1500 - c.2000) (20)				
<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 Anglo-American context, this module 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 means 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, urbanisations, and industrialisation, students will gain an appreciation of the historical relationships between environment and disease.</p>				
<b>Programme module type:</b>	Optional for Environmental History			
<b>Anti-requisite(s):</b>	MO5023			
<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 Clark			

If necessary, further 40 credits from:

EH5003 Environmental History: Nature and the Western World (1800 - 2000)

EH5102 Environmental History: Nature and the Western World (1800-2000) (20)

EH5004 Environmental Disasters: Crisis, Catastrophe, and Risk in the Modern World (1755 to Present) (40)

EH5101 Environmental Disasters: Crisis, Catastrophe, and Risk in the Modern World (1755 to Present) (20)

MO5023 Disease and Environment (c.1500 - c.2000) (40)

MO5223 Disease and Environment (c.1500 - c.2000) (20)

MO5151 Global Times - Plural Spaces 1

MO5152 Global Times - Plural Spaces 2

[For details see above](#)

**GE5051 Environmental Management in Scotland**

<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module focuses on current environmental management issues in Scotland. It provides, firstly, a presentation of the fundamental elements of the various systems of land and resource management (e.g. forestry, agriculture and crofting, wildlife, freshwater resources, conservation), and secondly, examples of the ways in which these systems interact. Throughout, the module aims to engender a holistic understanding of environmental management, in contrast to the sectoral approach traditionally employed by central and local government. The ultimate aim is to leave students with an informed conceptual framework for evaluating the merits of management proposals, with their attendant implications for environmental change and economic development. A particular focus, employing topical case studies and a field visit, will be the conflicts that are increasingly arising as interest groups with contrasting philosophies and value systems compete for the finite resources of Scotland's wild places.</p>				
<b>Programme module type:</b>	Optional for Environmental History			
<b>Anti-requisite(s):</b>	MO5023			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2 x 1-hour lectures weekly, and a weekend field excursion.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr C R Warren			

## History - Environmental History MLitt & MPhil - 2016/7 - August 2016

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 Intellectual History, Modern History, Transnational, Global and Spatial History Postgraduate Programmes.</p> <p>Optional for The Book: History and Techniques of Analysis, Central and East European Studies, Early Modern History, Environmental History, Reformation Studies 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			

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 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			

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 seminar.			
<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			

## History - Environmental History MLitt & MPhil - 2016/7 - August 2016

MO5630 Directed Reading in Modern History (20)				
<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 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 Environmental History and Modern History Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	Dr J Clark			

## 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			

## History - Intellectual History MLitt & MPhil - 2016/7 - August 2016

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			

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			



## History - Intellectual History MLitt & MPhil - 2016/7 - August 2016

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 Intellectual History, Modern History, Transnational, Global and Spatial History Postgraduate Programmes.</p> <p>Optional for The Book: History and Techniques of Analysis, Central and East European Studies, Early Modern History, Environmental History, Reformation Studies 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>	Dr J Clark			
<b>Lecturer(s)/Tutor(s):</b>	By arrangement			



## Masters in Iranian Studies

### Also Postgraduate Diploma and MPhil

Programme Coordinator: Prof Ali Ansari

#### **Taught Element:**

40 credits: MH5101

80 credits: from MH5301, MH5302, MH5111, MH5112

OR 50 credits: from MH5301, MH5302, 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:

<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				

## History - Iranian Studies MLitt - 2016/7 - June 2016

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. 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			

### Optional modules:

MH5301 Directed Reading in Middle Eastern History 1				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<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.				
<b>Programme module type:</b>	Optional for the Middle Eastern History Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour one-to-one tutorials (x 6)			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	TBC			

MH5302 Directed Reading in Middle Eastern History 2				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	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 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.				
<b>Programme module type:</b>	Optional for the Middle Eastern History Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour one-to-one tutorials (x 6)			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	TBC			

<b>MH5111 Iran and the World since 1921</b>				
<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			

<b>MH5112 Mediaeval Iran: from the Sasanids to the Samanids</b>				
<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			

## History - Iranian Studies MLitt - 2016/7 - June 2016

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>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b>			
<b>Assessment pattern:</b>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Prof A Ansari			
<b>Lecturer(s)/Tutor(s):</b>	Prof A Ansari			

**Plus Persian modules at appropriate level.**

## Masters in Legal and Constitutional Studies

Programme Coordinator: Prof C. Humfress

### **Postgraduate Diploma Taught Element:**

60 credits LC5001, LC5002, LC5026;

60 credits: (LC5021 or LC5022), (LC5023 or ME5012 or MS5028), (LC5024 or LC5025)

### **MLitt:**

120 credits as for the Postgraduate Diploma Taught Element plus LC5099

### **MPhil:**

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

## Compulsory modules:

LC5001 The Idea of Law				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This one-semester core module introduces fundamental concepts, questions and analytical frameworks relevant to legal, historical and constitutional research. Taught by the module co-ordinator supported by experts trained in a variety of different disciplinary approaches, topics will include law and statehood; law and formalism; law and social science; colonialism, empire and law; 'law and/in society'; and 'global law'. Emphasis will be placed throughout the module on developing analytical and critical research skills, including teaching students how to frame relevant research questions and independent-study projects.				
<b>Programme module type:</b>	Compulsory for Legal and Constitutional Studies Taught Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminars (x 11 weeks)			
<b>Assessment pattern:</b>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Prof C Humfress			
<b>Lecturer(s)/Tutor(s):</b>	Prof C Humfress, Prof J Hudson, Prof A Lang, Prof N Rengger			

## History - Legal and Constitutional Studies MLitt - 2016/7 - August 2016

LC5002 Comparative Studies in Legal and Constitutional Research				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>Comparative Studies in Legal and Constitutional Research provides a forum for students to develop, present, and write on a particular field or topic, drawing on methodological ideas from Semester 1 modules. Students will receive further guidance on the preparation and presentation (oral and written) of a research subject, including Masters' level argument-construction skills. They will then conduct research in their chosen field, as developed with guidance from those involved in teaching the module. Presentations to the whole class will provide not just feedback on the particular topic, but a forum for an exploration of the possibilities of comparison and comparative methodologies within legal and constitutional research. The module also provides preparation for the writing of dissertations; the research topic may lead into, but must be distinct from, that of the dissertation.</p>				
<b>Programme module type:</b>	Compulsory for Legal and Constitutional Studies Taught Postgraduate Programme Optional for Intellectual History, International Relations Taught Postgraduate Programme			
<b>Pre-requisite(s):</b>	LC5001			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminars (x 7 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof C Humfress			
<b>Lecturer(s)/Tutor(s):</b>	Prof C Humfress, Prof J Hudson, Prof A Lang			

LC5026 Special Topic in Legal and Constitutional Studies (2)				
<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 the opportunity for detailed research and tuition within a specialized field of their choice. It thereby complements the other, broader modules being taken at the same time. It also provides for individual or very small group supervision.</p> <p>Following discussions with the student, the MLitt co-ordinator will appoint a supervisor. The supervisor will be responsible for helping the student find an appropriate topic; for bibliographic help; for holding regular meetings to allow discussion and feedback; and for expert assessment of written work, with the assistance of a second marker).</p>				
<b>Programme module type:</b>	Compulsory for Legal and Constitutional Studies Taught Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (x 6 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof C Humfress, Prof A Lang			
<b>Lecturer(s)/Tutor(s):</b>	Prof C Humfress, Prof A Lang, Prof J Hudson, Prof N Rengger, Prof C Kidd, Dr A Bower, Dr M Peter			



LC5099 Dissertation in Legal and Constitutional Studies				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module provides students with the opportunity for detailed research within a specialized field of their choice. 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 a specified late August deadline.				
<b>Programme module type:</b>	Compulsory for Legal and Constitutional Studies MLitt Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 9 hours to be arranged with supervisor			
<b>Assessment pattern:</b>	Dissertation = 100%			
<b>Module Co-ordinator:</b>	Prof C Humfress, Prof A Lang			
<b>Lecturer(s)/Tutor(s):</b>	Prof C Humfress, Prof A Lang, Prof N Rengger, Prof J Hudson, Prof R Houston, Prof C Kidd, Prof K Haakonssen, Dr A Bower, Dr M Peter			

### Optional modules:

#### One of:

LC5021 Approaches to Legal History				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module provides students with a grounding in particularly influential authors and works on the history of law, and also requires critical reflection on method. It will provide students with a detailed knowledge of certain fundamental texts and the debates that they generated, thereby helping them to develop the skills needed to understand and evaluate the arguments presented by legal historians since the nineteenth century. Themes covered will include the common law tradition of legal history stretching back to Maitland; writings on law and society, including those of marxist historians such as E.P. Thompson; and the influence of social anthropology on the historical study of disputes.				
<b>Programme module type:</b>	Optional for Early Modern History, Intellectual History, Legal and Constitutional Studies, Mediaeval History, Mediaeval Studies Taught Postgraduate Programmes			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminars (x 11 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof J Hudson			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Hudson, Prof C Humfress, Prof C Kidd, Prof R Houston			

OR

LC5022 The Philosophy of International Law				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module will explore the philosophy of international law. Its focus will be less on the history and more on underlying philosophical issues arising from the nature and practice of international law.				
<b>Programme module type:</b>	Optional for Intellectual History, International Political Theory, Legal and Constitutional Studies Taught Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminars (x 11 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof A Lang			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Peter, Dr W Eves			

One of:

LC5023 Special Topic in Legal and Constitutional Studies (1)				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module provides students with the opportunity for detailed research and tuition within a specialised field of their choice. It thereby complements the other, broader modules being taken at the same time. It also provides for individual or very small group supervision. Following discussions with the student, the MLitt co-ordinator will appoint a supervisor. The supervisor will be responsible for helping the student find an appropriate topic; for bibliographic help; for holding regular meetings to allow discussion and feedback; and for expert assessment of written work, with the assistance of a second marker).				
<b>Programme module type:</b>	Optional for Legal and Constitutional Studies			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (x 6 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof C Humfress, Prof A Lang			
<b>Lecturer(s)/Tutor(s):</b>	Prof C Kidd, Dr A Bower, Dr M Peter			

OR

ME5012 Sources and Source Criticism (20)				
<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. It concentrates upon a selected central body of documentation and its associated problems and introduces appropriate skills training. Both students already familiar with the challenge of mediaeval sources and newcomers are welcome.				
<b>Programme module type:</b>	Optional for Mediaeval Studies Postgraduate Programme. Optional for Legal and Constitutional Studies Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	1.5-hour seminar and individual tutorials as required.			
<b>Assessment pattern:</b>	Coursework = 100%			

OR

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 Optional for Legal and Constitutional Studies Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	1 seminar.			
<b>Assessment pattern:</b>	Coursework = 100%			

One of:

LC5024 Comparative Studies in Legal History				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module provides a forum for students to develop, present, and write on a particular field or topic, drawing on methodological ideas from Semester 1 modules. Students will receive further guidance on the preparation and presentation (oral and written) of a research subject. They will then conduct research in that field, based as appropriate on primary and secondary sources. Presentations to the whole class will provide not just feedback on the particular topic, but a forum for an exploration of the possibilities of comparison within legal history. The module also provides preparation for the writing of dissertations; the research topic may lead into, but must be distinct from, that of the dissertation.				
<b>Programme module type:</b>	Optional for Early Modern History, Intellectual History, Legal and Constitutional Studies, Mediaeval History, Mediaeval Studies.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminars (x 7 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof J Hudson			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Hudson, Prof C Humfress, Prof C Kidd, Prof R Houston			

OR

LC5025 Global Constitutionalism				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module examines a range of approaches to Global Constitutionalism, exploring their assumptions, justifications, benefits, and limitations. It draws on key thinkers in the history of legal and political thought and explores a range of issues relating to the emergence of a global constitutional order.				
<b>Programme module type:</b>	Optional for Legal and Constitutional History and International Relations Taught Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminars (x 11 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof A Lang			
<b>Lecturer(s)/Tutor(s):</b>	Prof A Lang			

## 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 J Hudson			

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 J Hudson			

## History - Mediaeval History MLitt & MPhil - 2016/7 - August 2016

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 J Hudson			

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 J Hudson			

**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: from MH5301, MH5302, MH5002, IR5212

OR 50 credits: 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:

<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. Optional for Transnational, Global and Spacial 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 A Ansari			

## History - Middle Eastern History MLitt & MPhil - 2016/7 - August 2016

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. 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			

### Optional modules:

MH5301 Directed Reading in Middle Eastern History 1				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<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.				
<b>Programme module type:</b>	Optional for the Middle Eastern History Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour one-to-one tutorials (x 6)			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	TBC			

MH5302 Directed Reading in Middle Eastern History 2				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	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 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.				
<b>Programme module type:</b>	Optional for the Middle Eastern History Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour one-to-one tutorials (x 6)			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	TBC			



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>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b>			
<b>Assessment pattern:</b>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Prof A Ansari			
<b>Lecturer(s)/Tutor(s):</b>	Prof A Ansari			

### MH5201 Plus language modules:

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, TBC, Mr M Whitehouse			

## History - Middle Eastern History MLitt & MPhil - 2016/7 - August 2016

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>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, TBC, 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>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, TBC, Mr M Whitehouse			

## History - Middle Eastern History MLitt & MPhil - 2016/7 - August 2016

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>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 5 language/text 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, TBC, 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 Oral Examination = 20%, Coursework = 40%			
<b>Module Co-ordinator:</b>	Dr M Ghorbankarimi			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Ghorbankarimi			

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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>Required for:</b>	PR2001			
<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 Oral 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 Kate Ferris

#### **Taught Element:**

40 credits: either (MO5621 and MO5622) 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:

MO5621 History in the Making: Theories, Approaches and Practice 1				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<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>	MO5621 or MO5151 compulsory for Environmental History Postgraduate Programme, Compulsory for Modern History Postgraduate Programme. Optional for Central and East European Studies Postgraduate Programme.			
<b>Anti-requisite(s):</b>	MO5601			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr K Ferris			

**AND:**

MO5622 History in the Making: Theories, Approaches and Practice 2				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>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.</p>				
<b>Programme module type:</b>	MO5622 or MO5152 compulsory for Environmental History Postgraduate Programme, Compulsory for Modern History Postgraduate Programme. Optional for Central and East European Studies Postgraduate Programme.			
<b>Pre-requisite(s):</b>	MO5621	<b>Anti-requisite(s):</b>	MO5601	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5-hour seminar			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr K Ferris			

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>	Compulsory for The Book, Early Modern History, Intellectual History, Modern History, Reformation Studies, and Transnational History MLitt Postgraduate Programmes One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme. 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 Clark			
<b>Lecturer(s)/Tutor(s):</b>	By arrangement			

## 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.			
<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			

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 G Mitchell			

## History - Modern History MLitt & MPhil - 2016/7 - August 2016

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			

MO5607 The 1960s: An International Perspective				
<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 give students a perspective on a controversial decade which is strikingly different from the conventional 'sex, drugs and rock and roll' approach. In addition to the usual topics of youth culture, protest, et cetera, it will concentrate on issues not specific to the United States such as decolonisation, nuclear proliferation, the space race, and environmentalism.</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>	TBC			



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			

MO5610 Themes in Russian Nineteenth- and Twentieth-Century Intellectual History				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module serves as an introduction to Russian intellectual culture for postgraduate students taking a taught MLitt in Central and East European Studies. Based on a close reading of sources (in translation and/or in Russian), it analyses a number of key themes in Russian thought with reference to the socio-political contexts in which they first arose as well as their subsequent transformation in the Soviet era. The module also explores the ways in which some of the leit-motifs of pre-Revolutionary intellectual culture have more recently been recovered as a 'resource' by intellectuals and public figures in endeavors to re-articulate the 'authentic' nature of Russian culture in the aftermath of communism.</p>				
<b>Programme module type:</b>	Optional for Central and East European Studies, Modern History Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminars fortnightly			
<b>Assessment pattern:</b>	Coursework = 100 %			
<b>Module Co-ordinator:</b>	Dr F Nethercott			
<b>Lecturer(s)/Tutor(s):</b>	Dr F Nethercott			

## History - Modern History MLitt & MPhil - 2016/7 - August 2016

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			

MO5630 Directed Reading in Modern History (20)				
<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 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 Environmental History and Modern History Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour tutorial (fortnightly)			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	Dr J Clark			

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			

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 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 Reformation Studies

### Also Postgraduate Diploma and MPhil

Programme Coordinator: Dr Bridget Heal

#### **Taught Element:**

40 credits: MO5101 and MO5102

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:

MO5101 Aspects of Reformation 1				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
The module explores approaches and methods employed in the study of early modern religious history. The emphasis is upon individual reading and seminar discussion. The intention of the class is to develop a sense of historical development in early modern research. Topics covered across the two semesters will include: humanism; Lutheranism; Calvinism; Catholicism; religious radicalism; co-existence and toleration; society and gender.				
<b>Programme module type:</b>	Compulsory for Reformation Studies Postgraduate Programme.			
<b>Anti-requisite(s):</b>	MO5011			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar (x 6 weeks)			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	Dr B Heal			

## History - Reformation Studies MLitt & MPhil - 2016/7 - August 2016

MO5102 Aspects of Reformation 2				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
The module explores approaches and methods employed in the study of early modern religious history. The emphasis is upon individual reading and seminar discussion. The intention of the class is to develop a sense of historical development in early modern research. Topics covered across the two semesters will include: humanism; Lutheranism; Calvinism; Catholicism; religious radicalism; co-existence and toleration; society and gender.				
<b>Programme module type:</b>	Compulsory for Reformation Studies Postgraduate Programme.			
<b>Pre-requisite(s):</b>	MO5101	<b>Anti-requisite(s):</b>	MO5011	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar (x 6 weeks)			
<b>Assessment pattern:</b>	Coursework (2 essays) = 100%			
<b>Module Co-ordinator:</b>	Dr B Heal			

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 Optional for Central and East European Studies Postgraduate Programme. 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.			
<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, Reformation Studies, 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>	Prof G Rowlands			

MO5006 Society and Religious Change in Sixteenth-Century France				
<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 detailed examination of the development and near disintegration of the new French nation state in the sixteenth century. It examines how France faced the two major challenges of the age: the trend towards more centralised state-building, stimulated in part by the changing nature of warfare in the sixteenth century and the urge on the part of European monarchies to create a new monarchy; and the challenge posed by the divisions of European Christendom resulting from the Protestant Reformation. A central question to be answered is why France succeeded in meeting the first challenge so successfully, as epitomised by the 'Renaissance' monarchy of Francis I, but then collapsed so weakly in the face of the growth of Calvinism in the second half of the century.</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> Fortnightly tutorial and other teaching as appropriate.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof G Rowlands			

## History - Reformation Studies MLitt & MPhil - 2016/7 - August 2016

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 B Heal			

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			



<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>	<p>Compulsory for Intellectual History, Modern History, Transnational, Global and Spatial History Postgraduate Programmes.</p> <p>Optional for The Book: History and Techniques of Analysis, Central and East European Studies, Early Modern History, Environmental History, Reformation Studies 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>MO5609 Directed Reading in Modern History 2</b>				
<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>	Team taught			

## History - Reformation Studies MLitt & MPhil - 2016/7 - August 2016

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.			
<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. 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			

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			

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			
<p>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.</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 D Allan			

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			

## History - Reformation Studies MLitt & MPhil - 2016/7 - August 2016

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		

## Masters in Scottish Historical Studies

Programme Coordinator: Professor Roger Mason

### **Taught Element:**

80 credits: SC5301 and SC5302 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:

SC5301 Scotland's Pasts: Writing Scotland from the Middle Ages to the Present 1				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<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 module concludes with consideration of the development of Scottish history as an academic field of study in the twentieth century.</p>				
<b>Programme module type:</b>	Compulsory for Scottish Historical Studies Postgraduate Programme.			
<b>Anti-requisite(s):</b>	SC5051			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar classes (x 6 weeks)			
<b>Assessment pattern:</b>	Coursework (1 essay) = 100%			
<b>Module Co-ordinator:</b>	Prof R Mason			
<b>Lecturer(s)/Tutor(s):</b>	Prof R Mason			

## History - Scottish Historical Studies - MLitt & MPhil - 2016/7 - August 2016

SC5302 Scotland's Pasts: Writing Scotland from the Middle Ages to the Present 2				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<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 the Scottish past. Following on from SC5301, it focuses on the development of Scottish history as an academic field of study in the twentieth century through a series of specific case studies in modern Scottish historiography. Here particular episodes and issues are 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>Pre-requisite(s):</b>	SC5301	<b>Anti-requisite(s):</b>	SC5051	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar classes (x 6 weeks)			
<b>Assessment pattern:</b>	Coursework (1 essay) = 100%			
<b>Module Co-ordinator:</b>	Prof R Mason			
<b>Lecturer(s)/Tutor(s):</b>	Prof R Mason			

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.			
<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. 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>SC5099 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 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:**

<b>HI5002 Historical Sources and Skills 1</b>				
<b>SCOTCAT Credits:</b>	40	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 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.				
<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			

<b>HI5003 Historical Sources and Skills 2</b>				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Planned timetable:</b>	To be arranged.			
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.				
<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			

SC5201 Religion and Identity in Early Modern Britain				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<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			

SC5203 Building Britain: The Construction and Deconstruction of Britishness since 1707				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<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 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>	40	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. 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 seminar.			
<b>Assessment pattern:</b>	Coursework = 100 %			
<b>Module Co-ordinator:</b>	Dr K Lawson			

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MO5152 Global Times - Plural Spaces 2				
<b>SCOTCAT Credits:</b>	40	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. Optional for Environmental History Postgraduate Programme			
<b>Pre-requisite(s):</b>	MO5152			
<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 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 One of HI5099, AP5099, ME5099 or MO5099 compulsory for Middle Eastern History Postgraduate Programme. 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 Clark			
<b>Lecturer(s)/Tutor(s):</b>	By arrangement			

Compulsory unless given permission to substitute from optional list:

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 on GIS map-making and one on databases and network analysis. 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. 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			

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>	Compulsory for Intellectual History, Modern History, Transnational, Global and Spatial History Postgraduate Programmes. Optional for The Book: History and Techniques of Analysis, Central and East European Studies, Early Modern History, Environmental History, Reformation Studies 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			

Optional modules:

EH5003 Environmental History: Nature and the Western World (1800 - 2000)				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<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 Postgraduate Taught Programme.			
<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			

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. Optional for Transnational, Global and Spacial 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 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, Reformation Studies, 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>	Prof G Rowlands			

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) (40)				
<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			

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			

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 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:**

**Mediaeval Studies** ([link](#))

#### **MSc:**

**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 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 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:

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-is-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-is-coord-cs@st-andrews.ac.uk			

Compulsory modules - 2 of MN5424, MN4261, MN5470, MN5471:

MN5424 Corporate Finance and Accounting in a Guyen lobal Context				
<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 appraaisal 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. 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>	Dr L Nguyen			
<b>Lecturer(s)/Tutor(s):</b>	Dr L Nguyen and Ms L Stevenson			

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. 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>	Mr S Wilson			
<b>Lecturer(s)/Tutor(s):</b>	Mr S Wilson			

## MSc Management and Information Technology - 2016/7 - August 2016

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.			
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.				
<b>Programme module type:</b>	Compulsory for Management and Human Resource Management Postgraduate Programmes. 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>Availability restrictions:</b>	Not available as an optional module for any programme.			
<b>Planned timetable:</b>	To be arranged.			
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.				
<b>Programme module type:</b>	Compulsory for Management Postgraduate Programme. 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 are available - see the pdf online called [‘PG Computer Science - optional modules 2016 - 2017.’](#)**

**And the pdf online called [Management - optional modules 2016 - 2017](#)**

## Masters in Mediaeval Studies

### Taught Element:

40 credits: MS5001 Approaches to Mediaeval Studies

20 - 40 credits: MS5028 Latin for Mediaeval Studies\* (20 credits) or (MS5021 + MS5022 Core Languages and Text Skills (Arabic or Greek) (40 credits))

40 - 60 credits: MS5023 Introduction to Palaeography\*, MS5024 Mediaeval Language, (MS5025 Discipline Skills OR ME5012 Sources and Source Criticism)(20)), MS5026 Directed Reading in Mediaeval Studies (Semester 1) MS5027 Directed Reading in Mediaeval Studies (Semester 2)

\* Students will normally take MS5023 if they take MS5028

### MLitt:

120 credits as for the Taught Element plus the Dissertation 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:

MS5001 Approaches to Mediaeval Studies				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Planned timetable:</b>	To be arranged.			
The module introduces students to a range of themes essential to understanding multi-disciplinary and interdisciplinary approaches to the Middle Ages. Each seminar will explore a broad issue from a variety of theoretical perspectives, using selected texts, images and artefacts to anchor discussion. In the first semester, the module uses the twelfth-century German epic poem <i>Nibelungenlied</i> as its focal point; in the second semester, it explores the many manifestations of the cult of the Virgin Mary				
<b>Programme module type:</b>	Compulsory for Mediaeval Studies Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	Weekly seminar and other teaching as appropriate.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof B Bildhauer			

MS5099 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.			
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 deadline in the second half 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>MS5021 Core Language and Text Skills 1 (Greek 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>Co-requisite(s):</b>	MS5022			
<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 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>Co-requisite(s):</b>	MS5021			
<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>Co-requisite(s):</b>	Usually MS5028			
<b>Learning and teaching methods and delivery:</b>	1 seminar and 1 practical each week.			
<b>Assessment pattern:</b>	Coursework = 100%			



## Interdisciplinary - Mediaeval Studies MLitt & MPhil - 2016/7 - August 2016

MS5024 Mediaeval Language				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1 & 2 (taught twice)
<b>Planned timetable:</b>	To be arranged.			
<p>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.</p>				
<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%			

**EITHER**

MS5025 Discipline Skills				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>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.</p>				
<b>Programme module type:</b>	Optional for Mediaeval Studies Postgraduate Programme			
<b>Antt-requisite (s):</b>	ME5012			
<b>Learning and teaching methods and delivery:</b>	2-hour seminar.			
<b>Assessment pattern:</b>	Coursework = 100%			

**OR**

ME5012 Sources and Source Criticism (20)				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module addresses interpretation and criticism of mediaeval sources. It concentrates upon a selected central body of documentation and its associated problems and introduces appropriate skills training. Both students already familiar with the challenge of mediaeval sources and newcomers are welcome.</p>				
<b>Programme module type:</b>	Optional for Mediaeval Studies Postgraduate Programme.			
<b>Antt-requisite (s):</b>	MS5025			
<b>Learning and teaching methods and delivery:</b>	1.5-hour seminar and individual tutorials as required.			
<b>Assessment pattern:</b>	Coursework = 100%			

## Interdisciplinary - Mediaeval Studies MLitt & MPhil - 2016/7 - August 2016

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>Co-requisite(s):</b>	Usually MS5023			
<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:

International Political Theory ([link](#))

International Security Studies ([link](#))

Middle Eastern and Central Asian Security Studies ([link](#))

Peace and Conflict Studies ([link](#))

Strategic Studies ([link](#))

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](#))

Strategic 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](#))

Strategic 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, including works by figures such as Thucydides, Hobbes, Grotius, Rousseau, Mill, Nietzsche and Marx along with more contemporary figures such as Rawls, Benhabib and Connolly.				
<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>	10.00 am - 12.00 noon Wed			
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>	Dr J Hayden			

## International Relations - PG International Political Theory - 2016/7 - August 2016

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 Thu			
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 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 F Volpi			

## Compulsory for MPhil:

IR5601 Research Methods in international Relations				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<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:

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 2.00 pm - 3.00 pm or 3.00 pm - 4.00 pm Tue			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for International Security Studies 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 Ogden			

IR5040 Emergent Great Powers				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	10.00 am - 12.00 noon Mon			
<p>This module provides a comparative analysis of the emergence of India and China as great powers within the international system. Focusing upon the factors integral to such a phenomenon (from both theoretical and historical perspectives), students will build up a comprehensive understanding of these two states' past, contemporary and future global significance. After an assessment of differing orientating concepts from IR theory, the module will evaluate key factors concerning how India and China measure up as great powers, leading to an evaluation of the future challenges these two states will face as they define their emergent roles in the twenty-first century.</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>	Coursework = 100 %			
<b>Module Co-ordinator:</b>	Dr C Ogden			

## International Relations - PG International Political Theory - 2016/7 - August 2016

IR5042 Gender and Terrorism				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	1.00 pm - 3.00 pm Mon			
<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			

IR5055 Agency and Strategy in Non-Western Political Thought				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon - 2.00 pm Tue			
<p>Eastern political strategies and thought, while often resting on different assumptions to their Western counterparts, have in a context of globalization spread into very different contexts than those from which they originated. Sun Tzu is included in the canon of realist thought and often informs contemporary corporate strategy; Gandhi's satyagraha has provided impetus to nonviolent movements across the globe; Thich Quang Duc's self-immolation in Vietnam (1963) has been imitated in a number of contexts since. Jihad has become a global phenomenon. These are strategies with origins in ancient Eastern thought that have been put to use in contemporary political struggles. The question of agency is important in so far as non-Western societies have for the last several hundred years been in a structurally weak position vis a vis the expansion of Western power across the globe. Non-western philosophies have informed strategies of resistance or independence but may, in very different ways, become significant as India and China become global players. There has been a lively debate within International Relations theory about the potential importance of alternative modes of thought, more indigenous to these cultures, in the evolution of the future strategies of these emerging powers. The purpose of this module is to explore a range of 'classic' and secondary texts that express different elements of non-Western thought, both ancient and contemporary, to understand the underlying assumptions about the body, political community and the world, the objectives and workings of various strategies, both violent and nonviolent, the relationship between strategic choice and, on the one-hand, the contextual, social and/or political location of the agents, and, on the other hand, the relevance of these strategies for understanding contemporary global politics, ethics and science.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes in International Relations.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures and 2 office hours.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof K M Fierke			
<b>Lecturer(s)/Tutor(s):</b>	Prof K M Fierke			



IR5059 Political Order and Violence in the Middle East				
<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 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			

IR5060 Conflict and Intervention in the Twenty-First Century				
<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 seeks to critically engage with the evolving landscape of armed conflict by providing students with the theoretical and conceptual foundation to understand change and continuity in contemporary conflict and intervention. It uses recent and ongoing cases to examine theoretical and policy implications of multiple and often contradictory tendencies surrounding armed conflicts. The module's analytical aim is to explore two interconnected questions pertaining to the core values of the international system: (1) how are the shifts in the global order altering conflicts and interventions; and (2) what are the implications of new trends in conflict and intervention on the state system and the system of collective security.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate programmes in the School in International Relations.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar and 2 optional consultation hours			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Peter			

## International Relations - PG International Political Theory - 2016/7 - August 2016

IR5061 Security and Justice Institutions in World Politics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	10.00 am - 12.00 noon Tue			
<p>This module examines the development and efficacy of institutions in the fields of peace, security, and justice. The module has three core objectives. It first provides a brief survey of the range of actors (including states, intergovernmental organizations, and nongovernmental organisations) involved in contemporary global governance. It then seeks to familiarize students with leading theoretical accounts of the origins and impact of international institutions. Particular attention is given to realist, institutionalist, and constructivist approaches, but other views are incorporated as well. Finally, the module turns to a close consideration of a series of contemporary case studies such as the United Nations Security Council, North Atlantic Treaty Organization, nuclear weapons disarmament, International Court of Justice, International Criminal Court, and the human rights regime.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate programmes in the School in International Relations.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar and 2 optional consultation hours			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Bower			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Bower			

IR5408 Global Constitutionalism				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Thu			
<p>This module will explore the role of constitutional thinking at the global level. It will allow students to read theorists of constitutional thought - ancient, mediaeval and modern - in light of increasing demands for the rule of law at the global level. The module will explore specific thinkers and key themes in the area of constitutionalism. The module will draw upon legal theory and international law as well as broader themes in international political theory.</p>				
<b>Programme module type:</b>	Optional for International Political Theory, Peace and Conflict Studies and International Security Studies Postgraduate Taught 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 T Lang			

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>	11.00 am - 1.00 pm or 1.00 pm - 2.00 pm Wed			
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			

IR5414 Politics After "The Death of God": Evil and Tragedy in Modern Politics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Mon			
One of the major issues of twentieth century (international) political thought was that of the fate of liberal thought and democratic politics in light of progressive secularisation and rationalisation experienced by Western societies during the late nineteenth and early twentieth centuries. The combination of radical technological advancement and grand-scale social and economic transformation marking the transition into an age of mass politics and industrialised violence formed the background of what is often called the crisis of modern politics. The main characteristic of this new predicament was an acute sense of disorientation and loss of meaning following the collapse of the moral and civilisational standards of the nineteenth century. Philosophers like Nietzsche spoke of the death of God and the advent of the era of European nihilism to denote the retreat of metaphysical certainties in late modernity. The development of new forms of mechanised destruction and the rise of totalitarian forms of government triggered trenchant critiques of liberal politics and an agonising search for viable forms of political and social organisation that would save modernity from itself, i.e. rethink the nature of democratic politics in the age of mass-societies. This module will introduce students to the various diagnoses of modernity's civilisational malaise using the concepts of evil and tragedy as categorical indices to describe what went wrong with modernity. The second part of the module will explore theological and secular responses to the multiple crisis of liberal politics ranging from liberal conservative (Morgenthau), social democratic (Arendt, Frankfurt School) to Christian realist attempts to save modernity from itself as well as radical postmodern theological critiques of modernity.				
<b>Programme module type:</b>	Optional for International Political Theory and all other MLitt Taught Programmes within the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour lecture and 1-hour of fieldwork.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr V Paipais			
<b>Lecturer(s)/Tutor(s):</b>	Dr V Paipais			

## International Relations - PG International Political Theory - 2016/7 - August 2016

IR5415 Social Movements and Ideologies				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Wed			
<p>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.</p>				
<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			

IR5527 Conflicts, Security and Democracy in the Greater Caucasus (30)				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	3.00 pm - 5.00 pm Mon			
<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>	1.00 am - 3.00 pm or 3.00 pm - 5.00 pm Thu			
<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>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Dr F Volpi			

## 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>	1:00 - 3:00 pm Fri			
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 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			
<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 Ogden			

## International Relations - PG International Security Studies - 2016/7 - JAugust 2016

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 Thu			
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 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 F Volpi			

### 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:**

IR5040 Emergent Great Powers				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	10.00 am - 12.00 noon Mon			
<p>This module provides a comparative analysis of the emergence of India and China as great powers within the international system. Focusing upon the factors integral to such a phenomenon (from both theoretical and historical perspectives), students will build up a comprehensive understanding of these two states' past, contemporary and future global significance. After an assessment of differing orientating concepts from IR theory, the module will evaluate key factors concerning how India and China measure up as great powers, leading to an evaluation of the future challenges these two states will face as they define their emergent roles in the twenty-first century.</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>	Coursework = 100 %			
<b>Module Co-ordinator:</b>	Dr C Ogden			

IR5042 Gender and Terrorism				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	1.00 pm - 3.00 pm Mon			
<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			

IR5055 Agency and Strategy in Non-Western Political Thought				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon - 2.00 pm Tue			
<p>Eastern political strategies and thought, while often resting on different assumptions to their Western counterparts, have in a context of globalization spread into very different contexts than those from which they originated. Sun Tzu is included in the canon of realist thought and often informs contemporary corporate strategy; Gandhi's satyagraha has provided impetus to nonviolent movements across the globe; Thich Quang Duc's self-immolation in Vietnam (1963) has been imitated in a number of contexts since. Jihad has become a global phenomenon. These are strategies with origins in ancient Eastern thought that have been put to use in contemporary political struggles. The question of agency is important in so far as non-Western societies have for the last several hundred years been in a structurally weak position vis a vis the expansion of Western power across the globe. Non-western philosophies have informed strategies of resistance or independence but may, in very different ways, become significant as India and China become global players. There has been a lively debate within International Relations theory about the potential importance of alternative modes of thought, more indigenous to these cultures, in the evolution of the future strategies of these emerging powers. The purpose of this module is to explore a range of 'classic' and secondary texts that express different elements of non-Western thought, both ancient and contemporary, to understand the underlying assumptions about the body, political community and the world, the objectives and workings of various strategies, both violent and nonviolent, the relationship between strategic choice and, on the one-hand, the contextual, social and/or political location of the agents, and, on the other hand, the relevance of these strategies for understanding contemporary global politics, ethics and science.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes in International Relations.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures and 2 office hours.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof K M Fierke			
<b>Lecturer(s)/Tutor(s):</b>	Prof K M Fierke			

IR5059 Political Order and Violence in the Middle East				
<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 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			



IR5060 Conflict and Intervention in the Twenty-First Century				
<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 seeks to critically engage with the evolving landscape of armed conflict by providing students with the theoretical and conceptual foundation to understand change and continuity in contemporary conflict and intervention. It uses recent and ongoing cases to examine theoretical and policy implications of multiple and often contradictory tendencies surrounding armed conflicts. The module's analytical aim is to explore two interconnected questions pertaining to the core values of the international system: (1) how are the shifts in the global order altering conflicts and interventions; and (2) what are the implications of new trends in conflict and intervention on the state system and the system of collective security.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate programmes in the School in International Relations.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar and 2 optional consultation hours			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Peter			

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IR5061 Security and Justice Institutions in World Politics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	10.00 am - 12.00 noon Tue			
<p>This module examines the development and efficacy of institutions in the fields of peace, security, and justice. The module has three core objectives. It first provides a brief survey of the range of actors (including states, intergovernmental organizations, and nongovernmental organisations) involved in contemporary global governance. It then seeks to familiarize students with leading theoretical accounts of the origins and impact of international institutions. Particular attention is given to realist, institutionalist, and constructivist approaches, but other views are incorporated as well. Finally, the module turns to a close consideration of a series of contemporary case studies such as the United Nations Security Council, North Atlantic Treaty Organization, nuclear weapons disarmament, International Court of Justice, International Criminal Court, and the human rights regime.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate programmes in the School in International Relations.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar and 2 optional consultation hours			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Bower			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Bower			

IR5408 Global Constitutionalism				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Thu			
<p>This module will explore the role of constitutional thinking at the global level. It will allow students to read theorists of constitutional thought - ancient, mediaeval and modern - in light of increasing demands for the rule of law at the global level. The module will explore specific thinkers and key themes in the area of constitutionalism. The module will draw upon legal theory and international law as well as broader themes in international political theory.</p>				
<b>Programme module type:</b>	Optional for International Political Theory, Peace and Conflict Studies, International Security Studies, Strategic Studies Postgraduate Taught 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 T Lang			

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>	11.00 am - 1.00 pm or 1.00 pm - 2.00 pm Wed			
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, International Security Studies, Strategic Studies Postgraduate Taught 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			

IR5414 Politics After "The Death of God": Evil and Tragedy in Modern Politics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Mon			
One of the major issues of twentieth century (international) political thought was that of the fate of liberal thought and democratic politics in light of progressive secularisation and rationalisation experienced by Western societies during the late nineteenth and early twentieth centuries. The combination of radical technological advancement and grand-scale social and economic transformation marking the transition into an age of mass politics and industrialised violence formed the background of what is often called the crisis of modern politics. The main characteristic of this new predicament was an acute sense of disorientation and loss of meaning following the collapse of the moral and civilisational standards of the nineteenth century. Philosophers like Nietzsche spoke of the death of God and the advent of the era of European nihilism to denote the retreat of metaphysical certainties in late modernity. The development of new forms of mechanised destruction and the rise of totalitarian forms of government triggered trenchant critiques of liberal politics and an agonising search for viable forms of political and social organisation that would save modernity from itself, i.e. rethink the nature of democratic politics in the age of mass-societies. This module will introduce students to the various diagnoses of modernity's civilisational malaise using the concepts of evil and tragedy as categorical indices to describe what went wrong with modernity. The second part of the module will explore theological and secular responses to the multiple crisis of liberal politics ranging from liberal conservative (Morgenthau), social democratic (Arendt, Frankfurt School) to Christian realist attempts to save modernity from itself as well as radical postmodern theological critiques of modernity.				
<b>Programme module type:</b>	Optional for International Political Theory and all other MLitt Taught Programmes within the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour lecture and 1-hour of fieldwork.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr V Paipais			
<b>Lecturer(s)/Tutor(s):</b>	Dr V Paipais			

IR5415 Social Movements and Ideologies				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Wed			
<p>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.</p>				
<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			

IR5527 Conflicts, Security and Democracy in the Greater Caucasus (30)				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	3.00 pm - 5.00 pm Mon			
<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>	1.00 am - 3.00 pm or 3.00 pm - 5.00 pm Thu			
<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>	<b>Coursework = 100%</b>			
<b>Module Co-ordinator:</b>	Dr F Volpi			

## **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: IR5029 or IR5058 or IR5510 or IR5527

30 - 40 credits from Middle East: IR5059, IR5115, IR5415, 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>	2.00 pm - 5.00 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 Hinnebusch, Dr B Teles Fazendeiro			

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 Thu			
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 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 F Volpi			

## One of:

IR5510 Central Asia in World Order				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Thu			
<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 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>	2
<b>Planned timetable:</b>	3.00 pm - 5.00 pm Mon			
<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			

**Compulsory for MPhil:**

IR5601 Research Methods in international Relations				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<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:**

IR5059 Political Order and Violence in the Middle East				
<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 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.				
<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			



IR5415 Social Movements and Ideologies				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Wed			
<p>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.</p>				
<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			

IR5518 Conflict in the Middle East				
<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 centralises conflict in the Middle East as a broad area of inquiry and investigates the political, economic and social conditions generating conflict both within and between states in the region. The subjects covered include the emergence and meaning of the "nation-state" in the Middle East; the ideological relationship between Islam and Pan-Arabism; the latter and state nationalism; state-civil society relations, as well as inter-ethnic and gender related conflicts. The module also covers all aspects of the Arab-Israeli conflict.</p>				
<b>Programme module type:</b>	Optional for Middle East, Caucasus and Central Asian Security Studies Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 lecture and 1 seminar per week and 1 tutorial per fortnight.			
<b>Assessment pattern:</b>	3-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr F McCallum			

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>	1.00 am - 3.00 pm or 3.00 pm - 5.00 pm Thu			
<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>	<b>Coursework = 100%</b>			
<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 Programme. Optional for Middle East and Central Asia 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, LC5022

#### **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 - 7.00 pm Tue			
<p>This is a core module for the Masters programme in Peace and Conflict Studies (PCS). It is explicitly designed to be taken alongside its allied core module, IR 5701 Peace and Conflict Theory. Like that module it is concerned with examining the fundamental nature of war and peace but it focuses on a comparative assessment of real world examples from the past and contemporary scene. In particular, it concentrates on evaluating practical approaches commonly undertaken to try to end conflict by various actors ranging from the benign ('can't we just sit down and talk about this?') to the risky ('should we bomb to end wars?') or even horrific ('why not kill them all?'). In short, it aims to encourage reflection on 'what works' in peace-building.</p>				
<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			

## International Relations - Peace and Conflict Studies MLitt & MPhil - 2016/7 - August 2016

IR5701 Peace and Conflict Theory				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	2.00 pm - 3.30 pm Thu and 4.30 pm - 6.00 pm Thu			
<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>	Dr J McMullin			

IR5099 Dissertation for MLitt Programme/s				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Academic year:</b>	2016/7 & 2017/8			
<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 International Political Theory, International Security Studies, Middle East, Caucasus and Central Asian Security Studies and Peace and Conflict Studies MLitt Postgraduate Programmes 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 F Volpi			

## Optional modules:

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 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 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 Ogden			

IR5040 Emergent Great Powers				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	10.00 am - 12.00 noon Mon			
This module provides a comparative analysis of the emergence of India and China as great powers within the international system. Focusing upon the factors integral to such a phenomenon (from both theoretical and historical perspectives), students will build up a comprehensive understanding of these two states' past, contemporary and future global significance. After an assessment of differing orientating concepts from IR theory, the module will evaluate key factors concerning how India and China measure up as great powers, leading to an evaluation of the future challenges these two states will face as they define their emergent roles in the twenty-first century.				
<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>	Coursework = 100 %			
<b>Module Co-ordinator:</b>	Dr C Ogden			

## International Relations - Peace and Conflict Studies MLitt & MPhil - 2016/7 - August 2016

IR5042 Gender and Terrorism				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	1.00 pm - 3.00 pm Mon			
<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			

IR5055 Agency and Strategy in Non-Western Political Thought				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon - 2.00 pm Tue			
<p>Eastern political strategies and thought, while often resting on different assumptions to their Western counterparts, have in a context of globalization spread into very different contexts than those from which they originated. Sun Tzu is included in the canon of realist thought and often informs contemporary corporate strategy; Gandhi's satyagraha has provided impetus to nonviolent movements across the globe; Thich Quang Duc's self-immolation in Vietnam (1963) has been imitated in a number of contexts since. Jihad has become a global phenomenon. These are strategies with origins in ancient Eastern thought that have been put to use in contemporary political struggles. The question of agency is important in so far as non-Western societies have for the last several hundred years been in a structurally weak position vis a vis the expansion of Western power across the globe. Non-western philosophies have informed strategies of resistance or independence but may, in very different ways, become significant as India and China become global players. There has been a lively debate within International Relations theory about the potential importance of alternative modes of thought, more indigenous to these cultures, in the evolution of the future strategies of these emerging powers. The purpose of this module is to explore a range of 'classic' and secondary texts that express different elements of non-Western thought, both ancient and contemporary, to understand the underlying assumptions about the body, political community and the world, the objectives and workings of various strategies, both violent and nonviolent, the relationship between strategic choice and, on the one-hand, the contextual, social and/or political location of the agents, and, on the other hand, the relevance of these strategies for understanding contemporary global politics, ethics and science.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes in International Relations.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures and 2 office hours.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof K M Fierke			
<b>Lecturer(s)/Tutor(s):</b>	Prof K M Fierke			

IR5059 Political Order and Violence in the Middle East				
<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 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			

IR5060 Conflict and Intervention in the Twenty-First Century				
<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 seeks to critically engage with the evolving landscape of armed conflict by providing students with the theoretical and conceptual foundation to understand change and continuity in contemporary conflict and intervention. It uses recent and ongoing cases to examine theoretical and policy implications of multiple and often contradictory tendencies surrounding armed conflicts. The module's analytical aim is to explore two interconnected questions pertaining to the core values of the international system: (1) how are the shifts in the global order altering conflicts and interventions; and (2) what are the implications of new trends in conflict and intervention on the state system and the system of collective security.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate programmes in the School in International Relations.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar and 2 optional consultation hours			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr M Peter			

## International Relations - Peace and Conflict Studies MLitt & MPhil - 2016/7 - August 2016

IR5061 Security and Justice Institutions in World Politics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	10.00 am - 12.00 noon Tue or 10.00 am - 3.00 pm Thu			
<p>This module examines the development and efficacy of institutions in the fields of peace, security, and justice. The module has three core objectives. It first provides a brief survey of the range of actors (including states, intergovernmental organizations, and nongovernmental organisations) involved in contemporary global governance. It then seeks to familiarize students with leading theoretical accounts of the origins and impact of international institutions. Particular attention is given to realist, institutionalist, and constructivist approaches, but other views are incorporated as well. Finally, the module turns to a close consideration of a series of contemporary case studies such as the United Nations Security Council, North Atlantic Treaty Organization, nuclear weapons disarmament, International Court of Justice, International Criminal Court, and the human rights regime.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate programmes in the School in International Relations.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar and 2 optional consultation hours			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Bower			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Bower			

IR5408 Global Constitutionalism				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Thu			
<p>This module will explore the role of constitutional thinking at the global level. It will allow students to read theorists of constitutional thought - ancient, mediaeval and modern - in light of increasing demands for the rule of law at the global level. The module will explore specific thinkers and key themes in the area of constitutionalism. The module will draw upon legal theory and international law as well as broader themes in international political theory.</p>				
<b>Programme module type:</b>	Optional for International Political Theory, Peace and Conflict Studies, International Security Studies, Strategic Studies Postgraduate Taught 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 T Lang			



## International Relations - Peace and Conflict Studies MLitt & MPhil - 2016/7 - August 2016

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>	11.00 am - 1.00 pm or 1.00 pm - 2.00 pm Wed			
<p>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.</p>				
<b>Programme module type:</b>	Optional for International Political Theory, Peace and Conflict Studies, International Security Studies, Strategic Studies Postgraduate Taught 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			

IR5414 Politics After "The Death of God": Evil and Tragedy in Modern Politics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Mon			
<p>One of the major issues of twentieth century (international) political thought was that of the fate of liberal thought and democratic politics in light of progressive secularisation and rationalisation experienced by Western societies during the late nineteenth and early twentieth centuries. The combination of radical technological advancement and grand-scale social and economic transformation marking the transition into an age of mass politics and industrialised violence formed the background of what is often called the crisis of modern politics. The main characteristic of this new predicament was an acute sense of disorientation and loss of meaning following the collapse of the moral and civilisational standards of the nineteenth century. Philosophers like Nietzsche spoke of the death of God and the advent of the era of European nihilism to denote the retreat of metaphysical certainties in late modernity. The development of new forms of mechanised destruction and the rise of totalitarian forms of government triggered trenchant critiques of liberal politics and an agonising search for viable forms of political and social organisation that would save modernity from itself, i.e. rethink the nature of democratic politics in the age of mass-societies. This module will introduce students to the various diagnoses of modernity's civilisational malaise using the concepts of evil and tragedy as categorical indices to describe what went wrong with modernity. The second part of the module will explore theological and secular responses to the multiple crisis of liberal politics ranging from liberal conservative (Morgenthau), social democratic (Arendt, Frankfurt School) to Christian realist attempts to save modernity from itself as well as radical postmodern theological critiques of modernity.</p>				
<b>Programme module type:</b>	Optional for International Political Theory and all other MLitt Taught Programmes within the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour lecture and 1-hour of fieldwork.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr V Paipais			
<b>Lecturer(s)/Tutor(s):</b>	Dr V Paipais			

## International Relations - Peace and Conflict Studies MLitt & MPhil - 2016/7 - August 2016

IR5415 Social Movements and Ideologies				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Wed			
<p>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.</p>				
<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			

LC5022 The Philosophy of International Law				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>This module will explore the philosophy of international law. Its focus will be less on the history and more on underlying philosophical issues arising from the nature and practice of international law.</p>				
<b>Programme module type:</b>	Optional for Intellectual History, International Political Theory, Legal and Constitutional Studies Taught Postgraduate Programmes.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminars (x 11 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof N Rengger			
<b>Lecturer(s)/Tutor(s):</b>	Prof N Rengger			

## Masters in Strategic Studies

### Also Postgraduate Diploma

#### *Taught Element, and PG Diploma:*

60 credits: IR5800 and IR5801

60 credits: from IR5004 - IR5052, IR5403 - IR5449, IR5526 - IR5528, IR5721 - IR5749, OR HI5010 Directed Reading (various topics and specialist staff available)

#### **MLitt:**

120 credits from the Taught Element plus IR5099 or ME5099 or MO5099

### Compulsory modules:

IR5800 Modern War and Strategy				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Thu			
The module will provide students with essential knowledge of strategy and military history. It will be taught in tandem with the second core module of the MLitt in Strategic Studies, which focuses on the history of strategic thought. Taken together, both modules will equip students with an overview of the academic field of strategic studies. It will also help students acquire the necessary skills and techniques for independent further study of topics and questions in strategic studies.				
<b>Programme module type:</b>	Compulsory for Strategic 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 P O'Brien			

IR5801 Strategic Thought				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Mon.			
The module will provide students with essential knowledge of strategic theory and the history of strategic thought. It will equip students with an overview of the academic field of strategic studies. It will also help students acquire the necessary skills and techniques for independent further study of topics and questions in strategic studies.				
<b>Programme module type:</b>	Compulsory for Strategic 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 H Strachan			

## International Relations - PG Strategic Studies - 2016/7 - August 2016

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 Thu			
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 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 F Volpi			

### Optional modules:

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 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 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 Ogden			

IR5040 Emergent Great Powers				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	10.00 am - 12.00 noon Mon			
<p>This module provides a comparative analysis of the emergence of India and China as great powers within the international system. Focusing upon the factors integral to such a phenomenon (from both theoretical and historical perspectives), students will build up a comprehensive understanding of these two states' past, contemporary and future global significance. After an assessment of differing orientating concepts from IR theory, the module will evaluate key factors concerning how India and China measure up as great powers, leading to an evaluation of the future challenges these two states will ace as they define their emergent roles in the twenty-first century.</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>	Coursework = 100 %			
<b>Module Co-ordinator:</b>	Dr C Ogden			

IR5042 Gender and Terrorism				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	1.00 pm - 3.00 pm Mon			
<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			

## International Relations - PG Strategic Studies - 2016/7 - August 2016

IR5408 Global Constitutionalism				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Thu			
This module will explore the role of constitutional thinking at the global level. It will allow students to read theorists of constitutional thought - ancient, mediaeval and modern - in light of increasing demands for the rule of law at the global level. The module will explore specific thinkers and key themes in the area of constitutionalism. The module will draw upon legal theory and international law as well as broader themes in international political theory.				
<b>Programme module type:</b>	Optional for International Political Theory, Peace and Conflict Studies, International Security Studies, Strategic Studies Postgraduate Taught 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 T Lang			

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>	11.00 am - 1.00 pm or 1.00 pm - 2.00 pm Wed			
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, International Security Studies, Strategic Studies Postgraduate Taught 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			

IR5414 Politics After "The Death of God": Evil and Tragedy in Modern Politics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Mon			
<p>One of the major issues of twentieth century (international) political thought was that of the fate of liberal thought and democratic politics in light of progressive secularisation and rationalisation experienced by Western societies during the late nineteenth and early twentieth centuries. The combination of radical technological advancement and grand-scale social and economic transformation marking the transition into an age of mass politics and industrialised violence formed the background of what is often called the crisis of modern politics. The main characteristic of this new predicament was an acute sense of disorientation and loss of meaning following the collapse of the moral and civilisational standards of the nineteenth century. Philosophers like Nietzsche spoke of the death of God and the advent of the era of European nihilism to denote the retreat of metaphysical certainties in late modernity. The development of new forms of mechanised destruction and the rise of totalitarian forms of government triggered trenchant critiques of liberal politics and an agonising search for viable forms of political and social organisation that would save modernity from itself, i.e. rethink the nature of democratic politics in the age of mass-societies. This module will introduce students to the various diagnoses of modernity's civilisational malaise using the concepts of evil and tragedy as categorical indices to describe what went wrong with modernity. The second part of the module will explore theological and secular responses to the multiple crisis of liberal politics ranging from liberal conservative (Morgenthau), social democratic (Arendt, Frankfurt School) to Christian realist attempts to save modernity from itself as well as radical postmodern theological critiques of modernity.</p>				
<b>Programme module type:</b>	Optional for International Political Theory and all other MLitt Taught Programmes within the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour lecture and 1-hour of fieldwork.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr V Paipais			
<b>Lecturer(s)/Tutor(s):</b>	Dr V Paipais			

IR5415 Social Movements and Ideologies				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Wed			
<p>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.</p>				
<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			

## International Relations - PG Strategic Studies - 2016/7 - August 2016

IR5527 Conflicts, Security and Democracy in the Greater Caucasus (30)				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	3.00 pm - 5.00 pm Mon			
<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>	1.00 am - 3.00 pm or 3.00 pm - 5.00 pm Thu			
<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			



HI5010 Directed Reading in the History of War and Strategy				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1 or 2
<b>Planned timetable:</b>	By agreement between tutor and student			
<p>A directed reading project designed to encourage the development of skills of historical analysis related to the history of war and strategy, through concentrated study of topics chosen by the student in consultation with the tutor. The project will 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. Students taking this option will meet with their supervisor regularly in an individual tutorial to develop bibliographies, explore literature, discuss drafts of coursework and receive feedback on submitted work (which could be reviews of existing literature, bibliographic essays, essays on historical problems and issues, or explorations of primary source material.)</p>				
<b>Programme module type:</b>	Optional for Strategic Studies Taught Postgraduate Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1 tutorial			
<b>Assessment pattern:</b>	Coursework (2 x 3,000-word essays) = 100%			
<b>Module Co-ordinator:</b>	Prof G Rowlands			



## 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 IR5007, IR5033, IR5042, IR5904, IR5921, IR5922

#### **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 - 3.30 pm and 3.30 pm - 5.00 pm Tue (tutorials)			
<p>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.</p>				
<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> Tutorials and lectures.			
<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 - 2016/7 - August 2016

IR5902 Research Methods				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	3.00 pm Mon (lecture) 10.30 am - 11.30 pm Tue (tutorial)			
<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> Tutorials and lectures			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Argomaniz			

IR5999 Dissertation for Terrorism and Political Violence Studies MLitt				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	May - August
<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 investigation 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 the Terrorism and Political Violence Postgraduate Programme.			
<b>Pre-requisite(s):</b>	IR5901, IR5902 and 60 credits (2 modules) from IR5007, IR5033, IR5042, IR5904, IR5921, IR5922			
<b>Learning and teaching methods and delivery:</b>	Individual supervision.			
<b>Assessment pattern:</b>	Coursework (Dissertation) = 100%			
<b>Module Co-ordinator:</b>	Dr J Argomaniz			

**Optional modules:**

IR5007 Terrorism and Liberal Democracy				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	Lecture: 1.00 pm Tue and Tutorial: 11.00 am - 12.30pm Wed			
<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 International Political Theory, International Security Studies, Peace and Conflict Studies and Terrorism and Political Violence Postgraduate Taught Programmes.			
<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 N Brooke			

IR5042 Gender and Terrorism				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	1.00 pm - 3.00 pm Mon			
<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 and Terrorism and Political Violence 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			

## International Relations - Terrorism and Political Violence - Full time - 2016/7 - August 2016

IR5904 Terrorism and Theories of Collective Action				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon Mon (lecture), 11.00 am Tue (tutorial)			
<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>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 (lecture), 11.00 am - 12.30 pm and 12.30 pm - 2.00 pm Tue (tutorial)			
<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>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			

IR5922 Terrorism after 1945				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm Thu (lecture) and 3.00 pm - 4.30 pm (tutorial) Thu			
<p>This module will provide students with an overview of the evolution, characteristics, and decline of terrorist movements and campaigns since 1945 by looking at different forms of terrorism (ethnic, religious, social-revolutionary) as well as the responses that both states and international organisations have developed in order to cope with it. The module will also address state and state-sponsored terrorism and the problems that arise once a state actor is involved in terrorism. Moreover, it will examine why and under what circumstances terrorism and antiterrorism responses have been successful. Finally, students will take part in a simulation of UN antiterrorism negotiations in which they will represent a country, research this country's experience with and stance on terrorism and advance the respective government's key interest regarding a comprehensive UN antiterrorism convention.</p>				
<b>Programme module type:</b>	Optional for the Terrorism and Political Violence Postgraduate Programme			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour seminar + advertised office hours.			
<b>Assessment pattern:</b>	Coursework = 100% (including presentation worth 20%)			
<b>Module Co-ordinator:</b>	Dr B Blumenau			
<b>Lecturer(s)/Tutor(s):</b>	Dr B Blumenau			





## 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 N Brooke		
<b>Lecturer(s)/Tutor(s):</b>	Various		

## International Relations - Terrorism and Political Violence - Distance mode - 2016/7 - August 2016

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>This module examines historical and contemporary counter-terrorism efforts in terms of effectiveness, legality and morality, utilising examples drawing from a broad range of literature from within terrorism studies and beyond. Students will engage with debates on the use of military force, the ethics and effectiveness of intelligence, the need for credible public message on terrorism, difficulties with coordination and cooperation between and within states, as well as strategies for addressing root causes of political violence and learning to live with terrorism in the long term. Students will gain an understanding of what constitutes effective responses to terrorism and why states still fail so often in their efforts.</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 K McConaghy			
<b>Lecturer(s)/Tutor(s):</b>	Dr K McConaghy			

## International Relations - Terrorism and Political Violence - Distance mode - 2016/7 - August 2016

IR5954 Distance Learning Electives				
<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 D Muro			
<b>Lecturer(s)/Tutor(s):</b>	Various			

IR5998 Dissertation for Terrorism and Political Violence Studies MLitt Distance learning Programme				
<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>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 Argomaniz			



## School of Management

### Taught Programmes

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

#### **MSc:**

**Banking and Finance** ([link](#))

**Finance and Management** ([link](#))

**Management and Information Technology** (*see section 16*)

#### **MLitt:**

**Human Resource Management** ([link](#))

**International Business** ([link](#))

**International Business and Strategy** ([link](#))

**Management** ([link](#))

**Marketing** ([link](#))

#### **MRes:**

**Management Studies** ([link](#))

**Optional Modules in Management** ([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 Banking and Finance

### Banking and Finance

#### *Taught Element:*

80 credits: MN5310, MN5320, MN5443 and MN5444

40 credits: from 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>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			



MN5444 Advanced Corporate Finance				
<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 focus on empirical and theoretical issues that arise in modern corporate finance. Students will be exposed to key financial issues faced by finance managers of corporations. The module will also add to students' knowledge by introducing them to empirical research on the topics studied. Overall, this module equips students with conceptual and analytical skills necessary to make sound financial decisions.				
<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>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr L Nguyen			
<b>Lecturer(s)/Tutor(s):</b>	Dr L Nguyen			

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. 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 (choose 2):

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. 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. 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. 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. 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			

**Management - MSc Banking and Finance - 2016/7 - August 2016**

<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. 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>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			

## Management - MSc Finance and Management - 2016/7 - August 2016

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.			
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			

MN5444 Advanced Corporate Finance				
<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 focus on empirical and theoretical issues that arise in modern corporate finance. Students will be exposed to key financial issues faced by finance managers of corporations. The module will also add to students' knowledge by introducing them to empirical research on the topics studied. Overall, this module equips students with conceptual and analytical skills necessary to make sound financial decisions.				
<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>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Dr L Nguyen			
<b>Lecturer(s)/Tutor(s):</b>	Dr L 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 Finance and Management Postgraduate Programme.			
<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			

## Management - MSc Finance and Management - 2016/7 - August 2016

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. 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 available:

[see pdf online called PG Management - optional modules 2016-2017.](#)



## 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.

For CIPD accreditation, see the specific programme outlined at the end of this document.

**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			

Either MN5470 or MN5480:

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. 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			

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](#) or [MN5425](#):

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			

## Management - MLitt Human Resource Management - 2016/7 - August 2016

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 or MN5499:

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. 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			

### Recommended modules for CIPD accreditation:

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			

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, 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			

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.			
<p>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.</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, 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			

<b>MN5480 Managing and Developing People</b>				
<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			

<b>MN5481 Masterclasses in Human Resource Management</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 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.</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, 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			

## Management - MLitt Human Resource Management - 2016/7 - August 2016

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.			
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.				
<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			

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. 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			



## 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.			
<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			

## Management - MLitt International Business - 2016/7 - August 2016

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			

One of MN5498, MN5499:

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 - 2016/7 - August 2016

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. 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 available:

see pdf online called [PG Management - optional modules 2016-2017](#).

## Masters in International Business and Strategy

### MLitt:

120 credits from Moscow State University

60 credits: MN5001, MN5423 and MN5501

60 credits: *either* 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			

## Management - MLitt International Business and Strategy - 2016/7 - Augusts 2016

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.			
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.				
<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			

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. Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School, 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			

One of MN5498, MN5499:

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.			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for Banking and Finance MSc Programme. 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			





## 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. 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>	Dr L Nguyen			
<b>Lecturer(s)/Tutor(s):</b>	Dr L Nguyen and Ms L Stevenson			

## Management - MLitt Management - 2016/7 - August 2016

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. 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>	Mr S Wilson			
<b>Lecturer(s)/Tutor(s):</b>	Mr S Wilson			

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. 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>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. 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, MN5499:**

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 Management - 2016/7 - August 2016

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. 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 available:

see pdf online called [PG Management - optional modules 2016-2017](#).

## Masters in Management Studies

### Taught Element:

100 credits: SS5101 - SS5104, MN5001, MN5002

20 credits: from other approved 5000-level MN modules (in consultation with MRes Director)

### MRes:

120 credits from the Taught Element plus 60 credits from MN5399

*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			

## Management - MRes Management Studies - 2016/7 - August 2016

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			

SS5101 Being a Social Scientist				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7 & 2017/8			
<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 Compulsory for various MRes Programmes. Optional for Research Methods in Psychology (MSc), for Sustainable Development and Environmental Economics (MSc), for Sustainable Development (MSc), for Sustainable Development and Energy (MSc). Optional 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Kesby and TBC			

SS5102 Philosophy and Methodology of the Social Sciences				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	3.00 pm - 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 Optional for Research Methods in Psychology (MSc) Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc) Optional for various other MRes 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 M Kesby			
<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>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	10.00 am - 12.00 noon Tue			
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 Compulsory for Research Methods in Psychology (MSc) Compulsory for various other MRes Programmes Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc) Optional 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

## Management - MRes Management Studies - 2016/7 - August 2016

SS5104 Quantitative Research in Social Science				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	1.00 - 5.00 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). Compulsory for MRes in Human Geography. Compulsory for Research Methods in Psychology (MSc) Compulsory for various other MRes Programmes. Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc) Optional for various other MRes Programmes			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Mr J Ales			

MN5399 MRes Dissertation in Management Studies				
<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>	To be arranged.			
This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of management studies and to prepare a 15,000-20,000 word project detailing justified conclusions and recommendations (as appropriate).				
<b>Programme module type:</b>	Compulsory for Management Studies MRes Programme.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b>			
<b>Assessment pattern:</b>	Coursework (Dissertation) = 100%			
<b>Module Co-ordinator:</b>	Dr G Greig			
<b>Lecturer(s)/Tutor(s):</b>	Supervisory team			

### Optional modules available:

see pdf online called [PG Management - optional modules 2016-2017](#).



## 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			

## Management - MLitt Marketing - 2016/7 - August 2016

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>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 roshach 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 B Bratanova			
<b>Lecturer(s)/Tutor(s):</b>	Dr B Bratanova			

One of MN5498, MN5499:

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 Marketing - 2016/7 - August 2016

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. 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 available:

[see pdf online called PG Management - optional modules 2016-2017.](#)

## Optional modules available:

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. 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			

## Management - optional modules - 2016/7 - August 2016

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, 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. Optional for Management Studies MRes Programme and all other Postgraduate Programmes in the School, 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, 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			

## Management - optional modules - 2016/7 - August 2016

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, 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.			
<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 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			

## Management - optional modules - 2016/7 - August 2016

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, 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			

MN5604 Financial Systems				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
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.				
<b>Programme module type:</b>	Optional for Banking and Finance Postgraduate Programme. 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. 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. 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			

## Management - optional modules - 2016/7 - August 2016

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. 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 E Burt			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Burt			

## School of Mathematics & Statistics

### Taught Programmes

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

#### **Postgraduate Diploma:**

**Applied Statistics and Datamining** ([link](#))

#### **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

**Postgraduate Diploma 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 Postgraduate Diploma 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 Mon - Fri (Weeks 5 - 9)		
<p>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.</p>			
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining MSc Programme. Compulsory for Data-Intensive Analysis MSc Programme. Optional for Statistics MSc Programme.		
<b>Anti-requisite(s):</b>	MT4607	<b>Required for:</b>	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 5 weeks).		
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%		
<b>Module Co-ordinator:</b>	Ms H Worthington		
<b>Lecturer(s)/Tutor(s):</b>	Ms H Worthington		

## Mathematics & Statistics - Applied Statistics and Datamining MSc - 2016/7 - August 2016

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. Compulsory for Data-Intensive Analysis MSc Programme.			
<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 programming (typically R, SAS or python).</p>				
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining Postgraduate Programme. Compulsory for Data-Intensive Analysis MSc Programme. 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>Assessment pattern:</b>	2-hour Written Examination = 60%, Coursework = 40%			
<b>Module Co-ordinator:</b>	masters-coord-cs@st-andrews.ac.uk			



## Mathematics & Statistics - Applied Statistics and Datamining MSc - 2016/7 - August 2016

MT5757 Advanced Data Analysis				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Availability restrictions:</b>				
<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; LASSO and the Elastic Net; 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 R and the commercial packages SAS.</p>				
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining MSc Programme. Compulsory for Data-Intensive Analysis MSc Programme. 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, Dr H Worthington			

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. Optional for Statistics MSc Programme.			
<b>Pre-requisite(s):</b>	Acceptance on taught postgraduate 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 V Popov			
<b>Lecturer(s)/Tutor(s):</b>	Dr V Popov			

**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 21st of August.				
<b>Programme module type:</b>	Compulsory for MSc Programmes in Mathematics and in Statistics. Optional for Data-Intensive Analysis MSc 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 J D Mitchell			

**Optional modules:**

MT5611 Advanced Symbolic Computation				
<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			
This module aims to enable students to use a computer as a tool in their other modules and to turn naturally to a computer when solving mathematical problems. The module aims to illustrate the following points: computation allows one to conduct mathematical experiments; computation allows one to collect data about a problem being studied. This is similar to the way other scientists work. It is easier to try several different approaches to a problem and see which works. The computer is not intelligent; intelligence comes from the user. The user thinks, the user interprets, the computer calculates. Students will undertake a more substantial project than that required for MT4111.				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics, also for some Postgraduate programmes outwith the School.			
<b>Anti-requisite(s):</b>	MT4111			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 practical session (weeks 2 - 11).			
<b>Assessment pattern:</b>	2-hour Written Examination = 55%, Coursework: Project = 45%			
<b>Module Co-ordinator:</b>	Dr J D Mitchell			
<b>Lecturer(s)/Tutor(s):</b>	Dr J D Mitchell, Dr C M Roney-Dougal, TBC			

MT5751 Estimating Animal Abundance				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon Mon (odd), Wed and Fri			
<p>The module will introduce students to the main types of survey method for wildlife populations. It will cover simple methods in some detail and provide students with a conceptual framework for building understanding of more advanced methods. By the end of the course, students will be able to identify an appropriate assessment method for a given population, be able to design a simple survey to assess the population, and perform simple analyses of survey data. Students will get experience in using the methods via computer practical sessions involving design and analyses of surveys conducted by computer simulation.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics, also for some Postgraduate programmes outwith the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5 hrs lecture, 1 hr practical, 0.5 hr tutorial (weeks 1 - 10)			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Prof D L Borchers			
<b>Lecturer(s)/Tutor(s):</b>	Prof D L Borchers			

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			

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			
<p>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.</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 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			

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 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 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			

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			
<p>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.</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-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			

## Mathematics & Statistics - Applied Statistics and Datamining MSc - 2016/7 - August 2016

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			
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.				
<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>	11.00 am Mon (odd weeks), Wed and Fri			
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.				
<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 M Todd			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Todd			

MT5830 Topics in Geometry and Analysis				
<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			
<p>The module will present new developments in geometry and analysis that relate to research interests in St Andrews. Building on 4000-level modules in analysis, it will introduce students to advanced results in this beautiful and important area of mathematics. The choice of specific topics may vary from year to year but will be chosen from Geometric Measure Theory, Non-commutative Geometry, Fuchsian Groups, Harmonic Analysis, and Measurable Dynamics.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.			
<b>Anti-requisite(s):</b>	MT5828			
<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>	Dr J Fraser			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Fraser			

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			
<p>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.</p>				
<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 L Thomas			
<b>Lecturer(s)/Tutor(s):</b>	Dr L Thomas			

## Mathematics & Statistics - Applied Statistics and Datamining MSc - 2016/7 - August 2016

MT5836 Galois Theory				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	11.00 am Mon (odd weeks), Wed and Fri			
Galois theory is one of the most beautiful areas of mathematics, establishing a remarkable connection between the theory of polynomial equations and their roots and group theory. The subject brings together ideas from the theory of groups and fields in a powerful way, culminating in Galois' fundamental theorem. There are many applications of the work, for example demonstrating that certain ruler and compass constructions are impossible, and that there is no general formula for the solution of quintic equations.				
<b>Programme module type:</b>	Optional for all Postgraduate Taught Programmes within the School of Mathematics & Statistics.			
<b>Anti-requisite(s):</b>	MT5826			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 10 tutorials/practical classes over semester.			
<b>Assessment pattern:</b>	2.5-hour Written Examination = 100%			
<b>Module Co-ordinator:</b>	Dr S Huczynska			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Huczynska, Dr C Roney-Dougal			

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			

MT5990 Independent Study Module				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1 or 2
<b>Availability restrictions:</b>	Available only to students on an MMath, MPhys or MSc degree programme in the School			
<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 of Mathematics & Statistics.			
<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>	Dr M L Mackenzie			



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.			
<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			

30 credits: from MT modules in the range MT3000 - MT4598 or MT4600 - MT5998.

For the available modules see: [2016/7 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 from the Taught Element together with a 60-credit dissertation (MT5099)

## Modules

### 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 21st of August.				
<b>Programme module type:</b>	Compulsory for MSc Programmes in Mathematics and in Statistics. Optional for Data-Intensive Analysis MSc 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 J D Mitchell			

Optional modules:

MT5611 Advanced Symbolic Computation				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1 or 2
<b>Planned timetable:</b>	9.00 am Mon (odd weeks), Wed and Fri			
<p>This module aims to enable students to use a computer as a tool in their other modules and to turn naturally to a computer when solving mathematical problems. The module aims to illustrate the following points: computation allows one to conduct mathematical experiments; computation allows one to collect data about a problem being studied. This is similar to the way other scientists work. It is easier to try several different approaches to a problem and see which works. The computer is not intelligent; intelligence comes from the user. The user thinks, the user interprets, the computer calculates. Students will undertake a more substantial project than that required for MT4111.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics, also for some Postgraduate programmes outwith the School.			
<b>Anti-requisite(s):</b>	MT4111			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 practical session (weeks 2 - 11).			
<b>Assessment pattern:</b>	2-hour Written Examination = 55%, Coursework: Project = 45%			
<b>Module Co-ordinator:</b>	Dr J D Mitchell			
<b>Lecturer(s)/Tutor(s):</b>	Dr J D Mitchell, Dr C M Roney-Dougal, TBC			

MT5751 Estimating Animal Abundance				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon Mon (odd), Wed and Fri			
<p>The module will introduce students to the main types of survey method for wildlife populations. It will cover simple methods in some detail and provide students with a conceptual framework for building understanding of more advanced methods. By the end of the course, students will be able to identify an appropriate assessment method for a given population, be able to design a simple survey to assess the population, and perform simple analyses of survey data. Students will get experience in using the methods via computer practical sessions involving design and analyses of surveys conducted by computer simulation.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics, also for some Postgraduate programmes outwith the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5 hrs lecture, 1 hr practical, 0.5 hr tutorial (weeks 1 - 10)			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Prof D L Borchers			
<b>Lecturer(s)/Tutor(s):</b>	Prof D L Borchers			

<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			
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.				
<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			

<b>MT5806 Advanced Computational Techniques</b>				
<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			

<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			
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.				
<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			

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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			
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.				
<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			
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).				
<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 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			

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>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			

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			
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.				
<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>	11.00 am Mon (odd weeks), Wed and Fri			
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.				
<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 M Todd			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Todd			

## Mathematics & Statistics - Mathematics MSc - 2016/7 - August 2016

MT5830 Topics in Geometry and Analysis				
<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			
The module will present new developments in geometry and analysis that relate to research interests in St Andrews. Building on 4000-level modules in analysis, it will introduce students to advanced results in this beautiful and important area of mathematics. The choice of specific topics may vary from year to year but will be chosen from Geometric Measure Theory, Non-commutative Geometry, Fuchsian Groups, Harmonic Analysis, and Measurable Dynamics.				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.			
<b>Anti-requisite(s):</b>	MT5828			
<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>	Dr J Fraser			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Fraser			

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 L Thomas			
<b>Lecturer(s)/Tutor(s):</b>	Dr L Thomas			



MT5836 Galois Theory				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	11.00 am Mon (odd weeks), Wed and Fri			
Galois theory is one of the most beautiful areas of mathematics, establishing a remarkable connection between the theory of polynomial equations and their roots and group theory. The subject brings together ideas from the theory of groups and fields in a powerful way, culminating in Galois' fundamental theorem. There are many applications of the work, for example demonstrating that certain ruler and compass constructions are impossible, and that there is no general formula for the solution of quintic equations.				
<b>Programme module type:</b>	Optional for all Postgraduate Taught Programmes within the School of Mathematics & Statistics.			
<b>Anti-requisite(s):</b>	MT5826			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 10 tutorials/practical classes over semester.			
<b>Assessment pattern:</b>	2.5-hour Written Examination = 100%			
<b>Module Co-ordinator:</b>	Dr S Huczynska			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Huczynska, Dr C Roney-Dougal			

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			

MT5990 Independent Study Module				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1 or 2
<b>Availability restrictions:</b>	Available only to students on an MMath, MPhys or MSc degree programme in the School			
<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 of Mathematics & Statistics.			
<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>	Dr M L Mackenzie			

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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.			
<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			

### Further optional modules:

30 credits: from MT modules in the range MT3000 - MT4598 or MT4600 - MT5998.

For the available modules see: 2016/7 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 from the Taught Element together with a 60-credit dissertation (MT5099)

## Modules

### 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:

MT5611 Advanced Symbolic Computation				
<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			
<p>This module aims to enable students to use a computer as a tool in their other modules and to turn naturally to a computer when solving mathematical problems. The module aims to illustrate the following points: computation allows one to conduct mathematical experiments; computation allows one to collect data about a problem being studied. This is similar to the way other scientists work. It is easier to try several different approaches to a problem and see which works. The computer is not intelligent; intelligence comes from the user. The user thinks, the user interprets, the computer calculates. Students will undertake a more substantial project than that required for MT4111.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics, also for some Postgraduate programmes outwith the School.			
<b>Anti-requisite(s):</b>	MT4111			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 1 practical session (weeks 2 - 11).			
<b>Assessment pattern:</b>	2-hour Written Examination = 55%, Coursework: Project = 45%			
<b>Module Co-ordinator:</b>	Dr J D Mitchell			
<b>Lecturer(s)/Tutor(s):</b>	Dr J D Mitchell, Dr C M Roney-Dougal, TBC			

MT5751 Estimating Animal Abundance				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon Mon (odd), Wed and Fri			
<p>The module will introduce students to the main types of survey method for wildlife populations. It will cover simple methods in some detail and provide students with a conceptual framework for building understanding of more advanced methods. By the end of the course, students will be able to identify an appropriate assessment method for a given population, be able to design a simple survey to assess the population, and perform simple analyses of survey data. Students will get experience in using the methods via computer practical sessions involving design and analyses of surveys conducted by computer simulation.</p>				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics, also for some Postgraduate programmes outwith the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1.5 hrs lecture, 1 hr practical, 0.5 hr tutorial (weeks 1 - 10)			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Prof D L Borchers			
<b>Lecturer(s)/Tutor(s):</b>	Prof D L Borchers			

MT5753 Statistical Modelling				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	2.00 pm Mon - Fri (Weeks 5 - 9)			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining MSc Programme. Compulsory for Data-Intensive Analysis MSc Programme. Optional for Statistics MSc Programme.			
<b>Anti-requisite(s):</b>	MT4607	<b>Required for:</b>	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 5 weeks).			
<b>Assessment pattern:</b>	2-hour Written Examination = 50%, Coursework = 50%			
<b>Module Co-ordinator:</b>	Ms H Worthington			
<b>Lecturer(s)/Tutor(s):</b>	Ms H Worthington			

MT5757 Advanced Data Analysis				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Availability restrictions:</b>				
<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; LASSO and the Elastic Net; 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 R and the commercial packages SAS.</p>				
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining MSc Programme. Compulsory for Data-Intensive Analysis MSc Programme. 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, Dr H Worthington			

## Mathematics & Statistics - Statistics MSc - 2016/7 - August 2016

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. Optional for Statistics MSc Programme.			
<b>Pre-requisite(s):</b>	Acceptance on taught postgraduate 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 V Popov			
<b>Lecturer(s)/Tutor(s):</b>	Dr V Popov			

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			

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			

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			
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 eddy 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.				
<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			

## Mathematics & Statistics - Statistics MSc - 2016/7 - August 2016

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			
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.				
<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			
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).				
<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 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			



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>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			

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			
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.				
<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>	11.00 am Mon (odd weeks), Wed and Fri			
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.				
<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 M Todd			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Todd			

## Mathematics & Statistics - Statistics MSc - 2016/7 - August 2016

MT5830 Topics in Geometry and Analysis				
<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			
The module will present new developments in geometry and analysis that relate to research interests in St Andrews. Building on 4000-level modules in analysis, it will introduce students to advanced results in this beautiful and important area of mathematics. The choice of specific topics may vary from year to year but will be chosen from Geometric Measure Theory, Non-commutative Geometry, Fuchsian Groups, Harmonic Analysis, and Measurable Dynamics.				
<b>Programme module type:</b>	Optional for all Postgraduate Programmes within the School of Mathematics & Statistics.			
<b>Anti-requisite(s):</b>	MT5828			
<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>	Dr J Fraser			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Fraser			

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 L Thomas			
<b>Lecturer(s)/Tutor(s):</b>	Dr L Thomas			

MT5836 Galois Theory				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	11.00 am Mon (odd weeks), Wed and Fri			
Galois theory is one of the most beautiful areas of mathematics, establishing a remarkable connection between the theory of polynomial equations and their roots and group theory. The subject brings together ideas from the theory of groups and fields in a powerful way, culminating in Galois' fundamental theorem. There are many applications of the work, for example demonstrating that certain ruler and compass constructions are impossible, and that there is no general formula for the solution of quintic equations.				
<b>Programme module type:</b>	Optional for all Postgraduate Taught Programmes within the School of Mathematics & Statistics.			
<b>Anti-requisite(s):</b>	MT5826			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2.5 lectures (weeks 1 - 10) and 10 tutorials/practical classes over semester.			
<b>Assessment pattern:</b>	2.5-hour Written Examination = 100%			
<b>Module Co-ordinator:</b>	Dr S Huczynska			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Huczynska, Dr C Roney-Dougal			

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			

MT5990 Independent Study Module				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1 or 2
<b>Availability restrictions:</b>	Available only to students on an MMath, MPhys or MSc degree programme in the School			
<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 of Mathematics & Statistics.			
<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>	Dr M L Mackenzie			

## Mathematics & Statistics - Statistics MSc - 2016/7 - August 2016

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.			
<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			

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 programming (typically R, SAS or python).				
<b>Programme module type:</b>	Compulsory for Applied Statistics and Datamining Postgraduate Programme. Compulsory for Data-Intensive Analysis MSc Programme. 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>Assessment pattern:</b>	2-hour Written Examination = 60%, Coursework = 40%			
<b>Module Co-ordinator:</b>	masters-coord-cs@st-andrews.ac.uk			

30 credits: from MT modules in the range MT3000 - MT4598 or MT4600 - MT5998.

For the available modules see: [2016/7 Honours Mathematics & Statistics](#)

## School of Medicine

### Taught Programmes

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

#### **MSc:**

**Global Health Implementation** ([link](#))

**Health Psychology** ([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 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>	10.00 am - 12.00 noon Wed and 9.00 am - 11.00 am Fri (TBC)			
This module will serve as an introduction to key issues within global health, which 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. Assessment will comprise participation in feedback to peers, engagement in personal reflection, a self-selected mid-semester written assignment, and a self-selected end-of-semester presentation and written 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 seminar(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			

## Medicine - MSc Global Health Implementation - 2016/7 - August 2016

MD5202 Principles in Implementation Science				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	10.00 am - 12.00 noon Tue and 2.00 pm - 4.00 pm Thu (TBC)			
<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 participation in feedback to peers, engagement in personal reflection, a self-selected mid-semester written assignment, and a self-selected end-of-semester presentation and written 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 seminar(x 10 weeks), 2-hour tutorial (x 10 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	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>	9.00 am - 11.00 am Mon and 10.00 am - 12.00 noon Thu (TBC)			
<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 seminar (x 11 weeks), 2-hour tutorial (x 10 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 - 5.00 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 univariate and multivariate approaches to data analysis. The assessment will be in the form of practical tasks completed in class and/or independently.				
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Ales			

### Compulsory modules - Semester 2:

MD5204 Globalisation and Health				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	11.00 am - 1.00 pm Mon and 11.00 am - 1.00 pm Fri (TBC)			
This module will encourage an analysis of what is meant by globalisation and how this might affect the health of the global community. Globalization within the context of major societal forces such as economics, governance, trade, communication, education and information will be interrogated. The module will have specific objectives for each week and contact details for experts in the field will be provided for each theme. This module has been designed to be student-centred to give students the opportunity to explore globalization and develop their own perspective on this vast, important but ill-defined umbrella term. Assessment will take the form of debating, discussion groups, contributions to a blog site, a self-selected mid-semester written assignment, and a self-selected end-of-semester presentation and written 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-hourseminar (x 10 weeks),2-hour tutorial (x 10 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr J Cox-Singh			
<b>Lecturer(s):</b>	various			

## Medicine - MSc Global Health Implementation - 2016/7 - August 2016

MD5205 Inequalities and Inequities in Global Health				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Tue and 2.00 pm - 4.00 pm Thu (TBC)			
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. Assessment will comprise participation in feedback to peers, engagement in personal reflection, a self-selected mid-semester written policy briefing assignment, and a self-selected end-of-semester presentation and written 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>	Prof C Currie and Dr J Inchley			
<b>Lecturer(s):</b>	various			

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>	2.00 pm - 4.00 pm Mon and 11.00 am - 1.00 pm Thu (TBC)			
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 six structured critical appraisals of self-selected publications, participation in feedback to peers and engagement in personal reflection, and a self-selected end-of-semester presentation and written assignment based on a systematic review protocol.				
<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 seminar (x 10 weeks), 3-hour practical classes (x 1 week), 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			

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 noon Tue			
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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

Compulsory module - 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.			
This module involves undertaking a dissertation on a self-selected topic. One of a variety of formats can be selected, including but not limited to: primary and secondary data projects, evidence synthesis, programme proposal etc. 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.				
<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-ordinators:</b>	Dr D J Williams and Dr W Dhaliwal			
<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.			
<p>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.</p>				
<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.			
<p>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.</p>				
<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, prevention 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	<b>Co-requisite(s):</b>	PS5003, 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			

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>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Bowman			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Bowman, Dr R Spence, Dr S Pehrson and Professor S Reicher			

### 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. Compulsory for MSc in Health Psychology. Optional for MSc - Evolutionary and Comparative Psychology: the Origins of Mind.			
<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%			
<b>Module Co-ordinator:</b>	TBC			

## Medicine - Health Psychology MSc - 2016/7 - August 2016

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			



## 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** (*not available 2016 - 2017*)

#### **MLitt Mundus Masters (EU):**

**Crossways in Cultural Narratives** ([link](#))

#### **MLitt/MA:**

**German and Comparative Literature** ([link](#))

**MPhil:**

**Arabic** ([link](#))

**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** (*not available 2016 - 2017*)

**Modern Languages optional modules** ([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.

OR

90 credits: CA5001, CO5002, CO5004, ML5001 and ML5004

40 further credits chosen from two semesters of entry level or (if fulfilling the pre-requisites) non-entry level modules in any of the languages taught in the School of Modern Languages.

### **MLitt:**

120 credits as for Taught Element plus ML5099

OR

Language Pathway: 130 credits as for taught Elements 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:**

<b>CO5001 Apples and Oranges: Issues in Comparative Literature</b>				
<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, Persian, 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. 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>Lecturer(s)/Tutor(s):</b>	Team taught			

## Modern Languages - Comparative Literature MLitt & MPhil - 2016/7 - August 2016

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. 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>Lecturer(s)/Tutor(s):</b>	Team taught			

CO5004 The Specialised Reading and Translating for Comparative Literature				
<b>SCOTCAT Credits:</b>	10	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module will combine language and content elements in the form of a directed study, which will prepare the students who are taking the language pathway of our MLitt programme to get additional exposure to the new language they are learning while getting expert advice and practice on the content material (authors/subjects) which they need to master for their independent research on their dissertations. The expertise can be drawn from any of the languages taught at our school (Arabic, German, Italian, Persian, Russian and Spanish). If a student comes in with a level of French equivalent to A-level, AP score of 4 or SATII score of 700+, and embark on doing the language pathway in French, they can also take the module in French. Translations of the core texts discussed in class will be available to help facilitate their learning.</p>				
<b>Programme module type:</b>	Compulsory for Comparative Literature - language pathway option			
<b>Pre-requisite(s):</b>	CO5001	<b>Co-requisite(s):</b>	CO5002	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> A total of 6 hours of seminars and 2 hours of tutorial over the semester.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr S Talajooy			
<b>Lecturer(s)/Tutor(s):</b>	Team taught			

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			

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			

## Modern Languages - Comparative Literature MLitt & MPhil - 2016/7 - August 2016

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.			
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 available:

[see pdf online called PG Modern Languages - optional modules 2016-2017.](#)

## 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.

#### 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>	Prof G San Román			



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>	Prof G San Román			

ML5107 Dissertation Progress (Mundus)				
<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>	Prof G San Román			
<b>Lecturer(s)/Tutor(s):</b>	various			

## Modern Languages - Crossways in Cultural Narratives MLitt - 2016/7 - August 2016

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 30 ECTS (60 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>	Prof G San Román			

Optional 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.			
<p>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, Persian, Russian, Spanish). Translations of the core texts discussed in class will be available.</p>				
<b>Programme module type:</b>	<p>Compulsory for Comparative Literature and German and Comparative Literature Postgraduate Programmes.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p>			
<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>Lecturer(s)/Tutor(s):</b>	Team taught			

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>	<p>Compulsory for Comparative Literature Postgraduate Programmes.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p>			
<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>Lecturer(s)/Tutor(s):</b>	Team taught			

## Modern Languages - Crossways in Cultural Narratives MLitt - 2016/7 - August 2016

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			

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			

## Modern Languages - Crossways in Cultural Narratives MLitt - 2016/7 - August 2016

<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. 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>ML5105 Europe and America: Dialogues and Identity Formation in Text, Film and Theory</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	11.00 am Tue and Wed			
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.				
<b>Programme module type:</b>	Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes. 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> 1.5 hours comprising a combination of lectures and seminars.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr C O'Leary			

**Further optional Modern Language modules available:**

**[see pdf online called PG Modern Languages - optional modules 2016-2017.](#)**



## Masters in Cultural Identity Studies

### **Taught Element:**

80 credits: ML5001, ML5004, ML5006, ML5007

40 further credits chosen from: AP5013, AP5014, CO5001, CO5002, 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.*

<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. Optional for German and Comparative Literature Postgraduate Programme. 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 - Cultural Identity Studies MLitt & MPhil - 2016/7 - August 2016

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			



ML5007 Problems of Culture and Identity 2				
<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. 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			

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.			
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 available:**

**see pdf online called PG Modern Languages - optional modules 2016-2017.**



## 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.*

<b>FR5011 French Literary Revolutions (40)</b>				
<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. Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes. 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 G Bowd			

## Modern Languages - French Studies MLitt & MPhil - 2016/7 - August 2016

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 G Bowd			
<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			

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>	TBC			

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 - 2016/7 - August 2016

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 G Bowd			

## 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: CO5001

20 credits: GM5013

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. 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 - German and Comparative Literature MLitt /MA - 2016/7 - August 2016

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.</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

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			



**AND ONE OF:**

**Optional Modern Language modules available:**

AP5013	Middle Eastern Literary and Cultural Contexts (20)
FR5013	French Literary Revolutions (20)
IT5013	Italian Literary and Cultural Contexts (20)
ML5001	Literary and Cultural Theory (1)
RU5013	New Approaches to the Russian Literary Canon (20) (QUERIES - to be confirmed)
SP5013	Patterns in Hispanic Literature and Film (20)

**Optional English modules available:**

EN5115	Women, Writing and Gender 1: Renaissance to Romanticism
EN5116	Women, Writing and Gender 2: Victorian to Contemporary
EN5301	The Continental Renaissance
EN5302	Shakespeare and Textual Culture
EN5303	Renaissance Popular Culture
EN5304	Learned Culture: Rhetoric, Politics and Identity
EN5501	Contextualising the Modern
EN5502	Reading the Modern
EN5511	Theorising the Contemporary
EN5512	Contemporary Literature and Culture

Use online search engine for details: <https://portal.st-andrews.ac.uk/catalogue/>

Or view the pdf of optional modules for each School

**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.			
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.				
<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.*

<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.			
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.				
<b>Programme module type:</b>	Compulsory for German Studies Postgraduate Programme. Optional for German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes. Optional for other MLitt students in outside Modern Languages with permission of both Schools.			
<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			

## Modern Languages - German Studies MLitt & MPhil - 2016/7 - August 2016

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.			
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.				
<b>Programme module type:</b>	Compulsory for German Studies Postgraduate Programme. Optional for Comparative Literature, Cultural Identity Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes. 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 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.			
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. Optional for German and Comparative Literature Postgraduate Programme. 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			

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 - German Studies MLitt & MPhil - 2016/7 - August 2016

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.*

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>A young country with a long history, the problem of defining what it means to be Italian predates the formation of the nation state and remains unresolved in the 21st century. This module investigates diverse notions of identity through a variety of cultural production in Italian from the 13th century to the present day. Definitions of Italy and Italians have been largely constructed and located in its literature and culture, so the close study of texts, visual culture, and film is fundamental for understanding both the contemporary and historical reality of Italy. Issues explored in the module will be tailored to fit individual student interests and may include: gender, sexuality, race, language, borders, and regional identities.</p>				
<b>Programme module type:</b>	Compulsory for Italian Studies Postgraduate Programme. Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes. 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>	Dr Emma Bond			
<b>Lecturer(s)/Tutor(s):</b>	various			

## Modern Languages - Italian Studies MLitt & MPhil - 2016/7 - August 2016

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 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 - 2016/7 - August 2016

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>	TBC			

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 - 2016/7 - August 2016

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.*

<b>AP5011 Middle Eastern Literary and Cultural Contexts (40)</b>				
<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. Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme. 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 - 2016/7 - August 2016**

<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. Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus Postgraduate Programmes. 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. Optional for German and Comparative Literature Postgraduate Programme. 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			

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>	TBC			

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 - Middle Eastern Literary and Cultural Studies MLitt & MPhil - 2016/7 - August 2016**

<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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	Team taught/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.*

<b>RU5011 New Approaches to the Russian Literary Canon (40)</b>				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Combining a theoretical framework with a number of case studies, this module will explore how the 'Russian literary canon' has been constructed over the past two hundred years. Students will have the opportunity to study a number of works by Russian writers now considered 'canonical' (e.g. Aleksandr Pushkin, Fedor Dostoevsky, Andrei Platonov, Liudmila Ulitskaia), in depth as well as to consider texts that have fallen outside the privileged field of the 'literary', whether for reasons of production, reception, distribution, or promotion. In addition, students will be encouraged to consider how various institutions create and perpetuate notions of canonicity. This module will be taught jointly by members of the Russian Department and will draw on their fields of expertise. It will also take into account the backgrounds of enrolled students. Students taking the module as part of the MLitt in Russian Studies will be expected to complete readings in the original.</p>				
<b>Programme module type:</b>	<p>Compulsory for Russian Studies Postgraduate Programme.                      Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.                      Optional for other MLitt students outside Modern Languages, including the MLitt in Central and East European Studies, with permission of both Schools.</p>			
<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>	Dr V Donovan			

## Modern Languages - Russian Studies MLitt & MPhil - 2016/7 - August 2016

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>This module offers students the opportunity to draw on the expertise of the Department of Russian in order to explore a topic of their choice in depth. Potential subjects of study include: the English Novel in Russia; Issues in Russian Cultural Memory; Narratology and the Short Story; Russian Crime Fiction; Russian Romantic Prose; Russian and Polish Modernism; Russian Formalism in context; the Soviet Writing Self; Socialist Realism Inside and Out; Andrei Platonov; Race and Ethnicity in Russian and Russophone Literature; Russian Literary Peripheries; and Russian Cinema in the Putin Era. Students taking the module as part of the MLitt in Russian Studies will be expected to complete readings in the original.</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, including the MLitt in Central and East European Studies, with permission of both Schools.</p>			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> Seminars and occasional lectures.			
<b>Assessment pattern:</b>	Coursework = 100%			

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			



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>	TBC			

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 - 2016/7 - August 2016

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			

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. Optional for Crossways in Cultural Narratives Mundus Postgraduate Programme. 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. Optional for other MLitt students outside Modern Languages with permission of both Schools.			
<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			

## Modern Languages - optional modules - 2016/7 - August 2016

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 Programme. Optional for Comparative Literature, Cultural Identity Studies, Crossways in Cultural Narratives Mundus Postgraduate Programmes.			
<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			

FR5011 French Literary Revolutions (40)				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
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.				
<b>Programme module type:</b>	Compulsory for French Studies Postgraduate Programme. Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes. 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 G Bowd			

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 G Bowd			

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 G Bowd			
<b>Lecturer(s)/Tutor(s):</b>	various			

## Modern Languages - optional modules - 2016/7 - August 2016

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. 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> Individual Supervision.			
<b>Assessment pattern:</b>	Dissertation = 100%			
<b>Module Co-ordinator:</b>	Dr G Bowd			

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.			
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.				
<b>Programme module type:</b>	Compulsory for German Studies Postgraduate Programme. Optional for Central and East European Studies, German and Comparative Literature, and Crossways in Cultural Narratives Mundus Postgraduate Programmes.			
<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			

<b>GM5014 Specialised Research in German Studies</b>				
<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>			
<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 - optional modules - 2016/7 - August 2016

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>A young country with a long history, the problem of defining what it means to be Italian predates the formation of the nation state and remains unresolved in the 21st century. This module investigates diverse notions of identity through a variety of cultural production in Italian from the 13th century to the present day. Definitions of Italy and Italians have been largely constructed and located in its literature and culture, so the close study of texts, visual culture, and film is fundamental for understanding both the contemporary and historical reality of Italy. Issues explored in the module will be tailored to fit individual student interests and may include: gender, sexuality, race, language, borders, and regional identities.</p>				
<b>Programme module type:</b>	Compulsory for Italian Studies Postgraduate Programme. Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes. 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>	Dr E Bond			
<b>Lecturer(s)/Tutor(s):</b>	various			

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>	Optional for Comparative Literature, Cultural Identity Studies, German and Comparative Literature and Crossways in Cultural Narratives Mundus Postgraduate Programmes. Optional for other MLitt students outside Modern Languages with permission of both Schools.			
<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>	Compulsory for Italian Studies Postgraduate Programme. Optional for Comparative Literature, Cultural Identity Studies and Crossways in Cultural Narratives Mundus 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	various			

IT5099 Dissertation for MLitt Programme/s				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Availability restrictions:</b>				
<b>Planned timetable:</b>	At times arranged with the supervisor(s).			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for Italian MLitt Postgraduate Programmes. Optional for other MLitt students in outside Modern Languages with permission of both Schools.			
<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			

## Modern Languages - optional modules - 2016/7 - August 2016

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			

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>	TBC			

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> 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			

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			

## Modern Languages - optional modules - 2016/7 - August 2016

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
<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>	Dr C O'Leary			

RU5011 New Approaches to the Russian Literary Canon (40)				
<b>SCOTCAT Credits:</b>	40	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Combining a theoretical framework with a number of case studies, this module will explore how the 'Russian literary canon' has been constructed over the past two hundred years. Students will have the opportunity to study a number of works by Russian writers now considered 'canonical' (e.g. Aleksandr Pushkin, Fedor Dostoevsky, Andrei Platonov, Liudmila Ulitskaia), in depth as well as to consider texts that have fallen outside the privileged field of the 'literary', whether for reasons of production, reception, distribution, or promotion. In addition, students will be encouraged to consider how various institutions create and perpetuate notions of canonicity. This module will be taught jointly by members of the Russian Department and will draw on their fields of expertise. It will also take into account the backgrounds of enrolled students. Students taking the module as part of the MLitt in Russian Studies will be expected to complete readings in the original.</p>				
<b>Programme module type:</b>	<p>Compulsory for Russian Studies Postgraduate Programme.</p> <p>Optional for Crossways in Cultural Narratives Mundus Postgraduate Programmes.</p> <p>Optional for other MLitt students outside Modern Languages, including the MLitt in Central and East European Studies, with permission of both Schools.</p>			
<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>	Dr V Donovan			
<b>Lecturer(s)/Tutor(s):</b>	various			

RU5013 New Approaches to the Russian Literary Canon (20)				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>Combining a theoretical framework with a number of case studies, this module will explore how the 'Russian literary canon' has been constructed over the past two hundred years. Students will have the opportunity to study a number of works by Russian writers now considered 'canonical' (e.g. Aleksandr Pushkin, Fedor Dostoevsky, Andrei Platonov, Liudmila Ulitskaia), as well as to consider texts that have fallen outside the privileged field of the 'literary', whether for reasons of production, reception, distribution, or promotion. In addition, students will be encouraged to consider how various institutions create and perpetuate notions of canonicity. This module will be taught jointly by members of the Russian Department and will draw on their fields of expertise. Students taking the module as part of the MLitt in Russian Studies will be expected to read the assigned texts in the original Russian.</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			

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>This module offers students the opportunity to draw on the expertise of the Department of Russian in order to explore a topic of their choice in depth. Potential subjects of study include: the English Novel in Russia; Issues in Russian Cultural Memory; Narratology and the Short Story; Russian Crime Fiction; Russian Romantic Prose; Russian and Polish Modernism; Russian Formalism in context; the Soviet Writing Self; Socialist Realism Inside and Out; Andrei Platonov; Race and Ethnicity in Russian and Russophone Literature; Russian Literary Peripheries; and Russian Cinema in the Putin Era. Students taking the module as part of the MLitt in Russian Studies will be expected to complete readings in the original.</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, including the MLitt in Central and East European Studies, with permission of both Schools.</p>			
<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 Finer			
<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 II 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 S Hope			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Roca Royes			

## Philosophy - Epistemology, Mind and Language MLitt & MPhil - 2016/7 - August 2016

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 A Douglas, Dr K Hurtig, Dr C Johnston			

## 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>	To be arranged.			
<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 S Prosser and Dr E Glick			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Prosser 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:**

PY5205 Origins and History of Analytic Philosophy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
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 History of Philosophy, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 - 2016/7 - August 2016

PY5212 Introduction to Formal Epistemology				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Mon			
This module provides an introduction to issues in Formal Epistemology. The module includes an introduction to probability theory and decision theory. Topics include for example, dutch-book arguments, accuracy arguments. Bayesian confirmation, degrees of belief vs belief, reflection principles, Bayes' theorem.				
<b>Programme module type:</b>	Optional for Epistemology, or Mind and Language, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures (x 11 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr P Ebert			
<b>Lecturer(s)/Tutor(s):</b>	Dr P Ebert and Prof P Milne			

PY5310 Philosophy of Mind				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
The module will look at the philosophical dimensions of a number of debates that occur at the intersection between philosophy, scientific psychology and cognitive science. Particular attention will be paid to relating these debates to more traditional problems in metaphysics, epistemology and philosophy of mind.				
<b>Programme module type:</b>	Optional for Epistemology, Mind and Language, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 M Wheeler			
<b>Lecturer(s)/Tutor(s):</b>	Prof M Wheeler			

PY5324 Philosophy of Logic				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
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 and Language, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 K Scharp			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Scharp			

## Philosophy - Epistemology, Mind and Language MLitt & MPhil - 2016/7 - August 2016

PY5402 Advanced Epistemology				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
<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, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 S Roca Royes			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Roca Royes			

PY5403 Intuitions and Philosophical Methodology				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
<p>In this module we will address a range of issues concerning philosophical methodology and the use of intuitions in philosophy. Topics will include: the nature of intuition; how intuitions are and should be used within philosophy; positive accounts of intuition (rationalist, phenomenalist, naturalistic, conceptualist, eliminativist); skeptical challenges to the use of intuitions (from calibration, disagreement, experimental philosophy results).</p>				
<b>Programme module type:</b>	Optional for Epistemology, Mind and Language, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 J Brown			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Brown			



## 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 II 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 S Hope			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Roca Royes			

## Philosophy - History of Philosophy MLitt & MPhil - 2016/7 - August 2016

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 A Douglas, Dr K Hurtig, Dr C Johnston			

## 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>	To be arranged.			
<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 S Prosser and Dr E Glick			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Prosser 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:**

PY5201 Classical Philosophy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
The module will address topics in ancient metaphysics and ethics concentrating on selected readings from the works of Plato or Aristotle. The module will investigate Aristotle's notion of motion and change and how motion and change relate to different understandings of infinity and place/space. The readings will be primarily from Aristotle's Physics and Metaphysics.				
<b>Programme module type:</b>	Optional for History of Philosophy, or Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 - 2016/7 - August 2016

PY5203 Kant				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module will focus on Kant's critical philosophy. The primary text will be one of his three Critiques, and it may include consideration of themes in Kant's political philosophy, philosophy of religion or philosophy of history. The Cambridge translations are recommended.				
<b>Programme module type:</b>	Optional for History of Philosophy, Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 J Timmermann			
<b>Lecturer(s)/Tutor(s):</b>	Prof 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>	To be arranged.			
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 History of Philosophy, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 - History of Philosophy MLitt & MPhil - 2016/7 - August 2016

PY5213 Texts in the History of Political Philosophy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>In this module a classic text from the history of philosophy will be studied in detail. The goal will be to situate the text in its historical context, to understand it in its relation to other important works by the same author, and to consider the significance of objections to the text made by the author's contemporaries and by more recent political philosophers. Examples of texts that might be studied include, but are not limited to: Plato's Republic; Aristotle's Politics; Augustine's City of God; Hobbes's Leviathan; Locke's Two Treatises of Government; Rousseau's Social Contract; The Federalist Papers; Burke's Reflections on the Revolution in France; Kant's Doctrine of Right; Hegel's Philosophy of Right; Mill's On Liberty. The module will concentrate on identifying the author's intentions in the text in question, but not to the exclusion of the determining what resources the text offers to political philosophy today.</p>				
<b>Programme module type:</b>	Optional for History of Philosophy, or Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 J Harris			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Harris			

PY5320 Mediaeval Philosophy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module is a selective introduction to over a thousand years of Western philosophy before Descartes. We will focus on the 'golden age' of the 13th and 14th centuries, which are most famously home to Thomas Aquinas and William of Ockham respectively. Topics will vary from year to year, but may include: bivalence, foreknowledge and determinism; whether the past can be changed; whether the past could be infinite; whether lines are composed of indivisible points; what constitutes logical validity; what the relationship is between conditionals and arguments. The module will involve close reading of primary texts in a weekly workshop.</p>				
<b>Programme module type:</b>	Optional module for History of Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 Thakkar			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Thakkar			

## Philosophy - History of Philosophy MLitt & MPhil - 2016/7 - August 2016

PY5326 Twentieth-Century Philosophers				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
This module provides an introduction to some of the main ideas and arguments presented in the work of major twentieth-century philosophers. In any given year it will focus on one or two figures identifying the context of their work, the sources and figures that influenced them, and the positions and problems they adopted and addressed.				
<b>Programme module type:</b>	Optional for History of Philosophy, Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lecture.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Etinson			

## 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, 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 II 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 S Hope			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Roca Royes			

## Philosophy - Logic and Metaphysics MLitt & MPhil - 2016/7 - August 2016

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 A Douglas, Dr K Hurtig, Dr C Johnston			

## 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>	To be arranged.			
<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 S Prosser and Dr E Glick			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Prosser 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:**

PY5201 Classical Philosophy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
The module will address topics in ancient metaphysics and ethics concentrating on selected readings from the works of Plato or Aristotle. The module will investigate Aristotle's notion of motion and change and how motion and change relate to different understandings of infinity and place/space. The readings will be primarily from Aristotle's Physics and Metaphysics.				
<b>Programme module type:</b>	Optional for History of Philosophy, or Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 - Logic and Metaphysics MLitt & MPhil - 2016/7 - August 2016

PY5205 Origins and History of Analytic Philosophy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
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 History of Philosophy, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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			

PY5212 Introduction to Formal Epistemology				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Mon			
This module provides an introduction to issues in Formal Epistemology. The module includes an introduction to probability theory and decision theory. Topics include for example, dutch-book arguments, accuracy arguments. Bayesian confirmation, degrees of belief vs belief, reflection principles, Bayes' theorem.				
<b>Programme module type:</b>	Optional for Epistemology, or Mind and Language, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures (x 11 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr P Ebert			
<b>Lecturer(s)/Tutor(s):</b>	Dr P Ebert and Prof P Milne			



**Philosophy - Logic and Metaphysics MLitt & MPhil - 2016/7 - August 2016**

<b>PY5324 Philosophy of Logic</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
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 and Language, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 K Scharp			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Scharp			

<b>PY5402 Advanced Epistemology</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
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, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 S Roca Royes			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Roca Royes			



## 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 II 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 S Hope				
<b>Lecturer(s)/Tutor(s):</b>	Dr S Roca Royes				

## Philosophy - Moral, Political and Legal Philosophy MLitt & MPhil - 2016/7 - August 2016

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 A Douglas, Dr K Hurtig, Dr C Johnston			

## 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>	To be arranged.			
<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 S Prosser and Dr E Glick			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Prosser 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:**

PY5203 Kant				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module will focus on Kant's critical philosophy. The primary text will be one of his three Critiques, and it may include consideration of themes in Kant's political philosophy, philosophy of religion or philosophy of history. The Cambridge translations are recommended.				
<b>Programme module type:</b>	Optional for History of Philosophy, Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 J Timmermann			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Timmermann			

## Philosophy - Moral, Political and Legal Philosophy MLitt & MPhil - 2016/7 - August 2016

PY5213 Texts in the History of Political Philosophy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>In this module a classic text from the history of philosophy will be studied in detail. The goal will be to situate the text in its historical context, to understand it in its relation to other important works by the same author, and to consider the significance of objections to the text made by the author's contemporaries and by more recent political philosophers. Examples of texts that might be studied include, but are not limited to: Plato's Republic; Aristotle's Politics; Augustine's City of God; Hobbes's Leviathan; Locke's Two Treatises of Government; Rousseau's Social Contract; The Federalist Papers; Burke's Reflections on the Revolution in France; Kant's Doctrine of Right; Hegel's Philosophy of Right; Mill's On Liberty. The module will concentrate on identifying the author's intentions in the text in question, but not to the exclusion of the determining what resources the text offers to political philosophy today.</p>				
<b>Programme module type:</b>	Optional for History of Philosophy, or Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 J Harris			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Harris			

PY5312 Aesthetics				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
<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 Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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			

**Philosophy - Moral, Political and Legal Philosophy MLitt & MPhil - 2016/7 - August 2016**

<b>PY5315 Philosophy of Law</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
<p>This module covers the relationship between morality and the law, while also attending to whether the various understandings of that relationship are compatible with classic political principles such as the harm principle and the principle of liberal neutrality. It examines the question of whether the law generates moral reasons and whether it should be used to enforce morality, with this latter question being discussed both in the abstract and with respect to three case-studies: exploitation, coercion and blackmail. No prior exposure to philosophy of law is presumed.</p>				
<b>Programme module type:</b>	Optional for Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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			

<b>PY5319 Topics in Recent Moral Theory</b>				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged			
<p>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.</p>				
<b>Programme module type:</b>	Optional for Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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			

## Philosophy - Moral, Political and Legal Philosophy MLitt & MPhil - 2016/7 - August 2016

PY5326 Twentieth-Century Philosophers				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
This module provides an introduction to some of the main ideas and arguments presented in the work of major twentieth-century philosophers. In any given year it will focus on one or two figures identifying the context of their work, the sources and figures that influenced them, and the positions and problems they adopted and addressed.				
<b>Programme module type:</b>	Optional for History of Philosophy, Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lecture.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Etnson			



## 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 II 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 S Hope			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Roca Royes			

## Philosophy - Philosophy MLitt & MPhil - 2016/7 - August 2016

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 A Douglas, Dr K Hurtig, Dr C Johnston			

## 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>	To be arranged.			
<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 S Prosser and Dr E Glick			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Prosser 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>	To be arranged.			
The module will address topics in ancient metaphysics and ethics concentrating on selected readings from the works of Plato or Aristotle. The module will investigate Aristotle's notion of motion and change and how motion and change relate to different understandings of infinity and place/space. The readings will be primarily from Aristotle's Physics and Metaphysics.				
<b>Programme module type:</b>	Optional for History of Philosophy, or Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 - 2016/7 - August 2016

PY5203 Kant				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
This module will focus on Kant's critical philosophy. The primary text will be one of his three Critiques, and it may include consideration of themes in Kant's political philosophy, philosophy of religion or philosophy of history. The Cambridge translations are recommended.				
<b>Programme module type:</b>	Optional for History of Philosophy, Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 J Timmermann			
<b>Lecturer(s)/Tutor(s):</b>	Prof 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>	To be arranged.			
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 History of Philosophy, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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:

PY5212 Introduction to Formal Epistemology				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm Mon			
This module provides an introduction to issues in Formal Epistemology. The module includes an introduction to probability theory and decision theory. Topics include for example, dutch-book arguments, accuracy arguments. Bayesian confirmation, degrees of belief vs belief, reflection principles, Bayes' theorem.				
<b>Programme module type:</b>	Optional for Epistemology, or Mind and Language, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lectures (x 11 weeks)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr P Ebert			
<b>Lecturer(s)/Tutor(s):</b>	Dr P Ebert and Prof P Milne			

PY5213 Texts in the History of Political Philosophy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
In this module a classic text from the history of philosophy will be studied in detail. The goal will be to situate the text in its historical context, to understand it in its relation to other important works by the same author, and to consider the significance of objections to the text made by the author's contemporaries and by more recent political philosophers. Examples of texts that might be studied include, but are not limited to: Plato's Republic; Aristotle's Politics; Augustine's City of God; Hobbes's Leviathan; Locke's Two Treatises of Government; Rousseau's Social Contract; The Federalist Papers; Burke's Reflections on the Revolution in France; Kant's Doctrine of Right; Hegel's Philosophy of Right; Mill's On Liberty. The module will concentrate on identifying the author's intentions in the text in question, but not to the exclusion of the determining what resources the text offers to political philosophy today.				
<b>Programme module type:</b>	Optional for History of Philosophy, or Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 J Harris			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Harris			

## Philosophy - Philosophy MLitt & MPhil - 2016/7 - August 2016

PY5310 Philosophy of Mind				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
The module will look at the philosophical dimensions of a number of debates that occur at the intersection between philosophy, scientific psychology and cognitive science. Particular attention will be paid to relating these debates to more traditional problems in metaphysics, epistemology and philosophy of mind.				
<b>Programme module type:</b>	Optional for Epistemology, Mind and Language, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 M Wheeler			
<b>Lecturer(s)/Tutor(s):</b>	Prof M Wheeler			

PY5312 Aesthetics				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
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 Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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>	To be arranged			
<p>This module covers the relationship between morality and the law, while also attending to whether the various understandings of that relationship are compatible with classic political principles such as the harm principle and the principle of liberal neutrality. It examines the question of whether the law generates moral reasons and whether it should be used to enforce morality, with this latter question being discussed both in the abstract and with respect to three case-studies: exploitation, coercion and blackmail. No prior exposure to philosophy of law is presumed.</p>				
<b>Programme module type:</b>	Optional for Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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			

PY5319 Topics in Recent Moral Theory				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged			
<p>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.</p>				
<b>Programme module type:</b>	Optional for Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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			

## Philosophy - Philosophy MLitt & MPhil - 2016/7 - August 2016

PY5320 Mediaeval Philosophy				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This module is a selective introduction to over a thousand years of Western philosophy before Descartes. We will focus on the 'golden age' of the 13th and 14th centuries, which are most famously home to Thomas Aquinas and William of Ockham respectively. Topics will vary from year to year, but may include: bivalence, foreknowledge and determinism; whether the past can be changed; whether the past could be infinite; whether lines are composed of indivisible points; what constitutes logical validity; what the relationship is between conditionals and arguments. The module will involve close reading of primary texts in a weekly workshop.</p>				
<b>Programme module type:</b>	Optional module for History of Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 Thakkar			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Thakkar			

PY5324 Philosophy of Logic				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
<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 and Language, or Logic and Metaphysics, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 K Scharp			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Scharp			



PY5326 Twentieth-Century Philosophers				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
This module provides an introduction to some of the main ideas and arguments presented in the work of major twentieth-century philosophers. In any given year it will focus on one or two figures identifying the context of their work, the sources and figures that influenced them, and the positions and problems they adopted and addressed.				
<b>Programme module type:</b>	Optional for History of Philosophy, Moral, Political and Legal Philosophy, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 2-hour lecture.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Etinson			

PY5402 Advanced Epistemology				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged			
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, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor.			
<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 S Roca Royes			
<b>Lecturer(s)/Tutor(s):</b>	Dr S Roca Royes			

PY5403 Intuitions and Philosophical Methodology				
<b>SCOTCAT Credits:</b>	20	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	To be arranged.			
In this module we will address a range of issues concerning philosophical methodology and the use of intuitions in philosophy. Topics will include: the nature of intuition; how intuitions are and should be used within philosophy; positive accounts of intuition (rationalist, phenomenalist, naturalistic, conceptualist, eliminativist); skeptical challenges to the use of intuitions (from calibration, disagreement, experimental philosophy results).				
<b>Programme module type:</b>	Optional for Epistemology, Mind and Language, or Philosophy Postgraduate Programmes, or other postgraduate programmes within the Department as approved by the MLitt Convenor			
<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 J Brown			
<b>Lecturer(s)/Tutor(s):</b>	Prof J Brown			



## School of Physics & Astronomy

### Taught Programmes

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

#### Master of Science - MSc:

**Astrophysics** ([link](#))

**Photonics and Optoelectronic Devices** ([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.*



## Masters in Astrophysics

Taught Element:

30 credits: AS5500

90 credits from: AS4010, AS4011, AS5001, AS5002, AS5003, AS5521, AS5522, AS5523, AS5524, PH5011, PH5023

A minimum of 90 credits must be in 5000-level modules.

MSc: 120 credits as for Taught Element together with a project (AS5599) comprising 3 months full-time study and worth 60 credits.

### Compulsory module for MSc:

AS5500 Research Skills in Astrophysics				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Planned timetable:</b>	To be arranged.			
<p>This module will provide the basic astrophysical background and will introduce students to the research skills needed for a career in astrophysics. The module consists of a series of introductory lectures and practicals on basic astrophysical concepts, followed by a tutorial-based system to introduce the skills of astrophysical research. These skills include the critical analysis of the scientific literature; presenting research topics and results to a scientific and general audience; a basic computational competence; and undertaking novel research in areas of current astrophysical interest, potentially including science education and public outreach.</p>				
<b>Programme module type:</b>	Compulsory for MSc in Astrophysics			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 15 hours of lectures, 20 hours of seminars and 20 hours of tutorials			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A-M Weijmans			
<b>Lecturer(s)/Tutor(s):</b>	Dr A-M Weijmans, Prof I Bonnell, Dr A Scholz			

## Physics & Astronomy - Astrophysics - MSc 2016/7 - August 2016

AS5599 Astrophysics Research Project (MSc)				
<b>SCOTCAT Credits:</b>	60	SCQF Level 11	<b>Semester:</b>	Summer
<b>Planned timetable:</b>	To be arranged.			
The project aims to develop students' skills in searching the appropriate literature, in astrophysical theory or experimental and observational design, the evaluation and interpretation of data, and the presentation of a report. There is no specific syllabus for this module. Students taking the MSc Astrophysics degree select a project from a list of those available and are supervised by a member of the academic staff.				
<b>Programme module type:</b>	Compulsory for MSc in Astrophysics			
<b>Pre-requisite(s):</b>	BSc or equivalent in the physical sciences	<b>Co-requisite(s):</b>	AS5500	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 1-hour peer group sessions (x 12), 2-hour supervisions (x 12)			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof I Bonnell			
<b>Lecturer(s)/Tutor(s):</b>	Staff from Physics & Astronomy			

### 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 Astrophysics, 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 (TBC)			
<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)			
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.				
<b>Programme module type:</b>	Optional for MSc in Astrophysics, 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 (TBC)			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Wood (TBC)			

AS5001 Advanced Data Analysis				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Planned timetable:</b>	9.00 am Tue, Thu, 10.00 am Mon, 12.00 noon Thu and 3.00 pm - 5.00 pm Tue (Lab) (TBC)			
This module develops an understanding of basic concepts and offers practical experience with the techniques of quantitative data analysis. Beginning with fundamental concepts of probability theory and random variables, practical techniques are developed for using quantitative observational data to answer questions and test hypotheses about models of the physical world. The methods are illustrated by applications to the analysis of time series, imaging, spectroscopy, and tomography datasets. Students develop their computer programming skills, acquire a data analysis toolkit, and gain practical experience by analyzing real datasets.				
<b>Programme module type:</b>	Optional for Postgraduate programmes in the School.			
<b>Pre-requisite(s):</b>	Admission to a taught Postgraduate degree programme in the School.			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 3 lectures or tutorials and some supervised computer lab sessions			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Prof K Horne (TBC)			
<b>Lecturer(s)/Tutor(s):</b>	Prof K Horne			

## Physics & Astronomy - Astrophysics - MSc 2016/7 - August 2016

AS5002 Magnetofluids and Space Plasmas				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<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 of Physics & Astronomy.			
<b>Pre-requisite(s):</b>	Admission to a taught Postgraduate degree programme in 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 (TBC)			
<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)			
<p>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.</p>				
<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 tutorials			
<b>Assessment pattern:</b>	2-hour Written Examination = 100%			
<b>Module Co-ordinator:</b>	Dr H Zhao (TBC)			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Sicilia-Aguilar, Dr P Rimmer, Dr A Mortier, Dr H Zhao (TBC)			



AS5521 Observational Techniques in Astrophysics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	Whole Year
<b>Planned timetable:</b>	Semester 1: Labs: 2.00 pm - 5.30 pm on Mon and Thu Semester 2: Lectures: 5.00 pm - 6.00 pm on Monday			
This is a module that provides a complete overview of the practical part of research in observational astronomy. In the laboratory part, students learn how to plan observations with telescopes at the university observatory, followed by data reduction and analysis. Projects in this part include structural analysis of galaxies and photometry of transiting exoplanet candidates. Observations are also secured using a student-built radio telescope to observe low-frequency radio emission from astronomical sources. The lecture part prepares the students for working with large-scale professional facilities and advanced observing techniques. The module is rounded off by hands-on observing training with the James Gregory Telescope in St Andrews and (optional) with telescopes overseas as part of a field trip. Overall, students gain valuable experience in observation, data analysis, astronomical software, observing techniques, report and proposal writing.				
<b>Programme module type:</b>	Optional for MSc in Astrophysics			
<b>Pre-requisite(s):</b>	BSc or equivalent in the physical sciences	<b>Co-requisite(s):</b>	AS5500	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 7-hour practical classes (x 7 weeks), 1-hour Lectures (x 10 weeks), 15 hours of fieldwork.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr A Scholz			
<b>Lecturer(s)/Tutor(s):</b>	Dr A Scholz, Dr C Cyganowski, Prof A Cameron			

AS5522 Stellar Physics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
This module develops the physics of stellar interiors and atmospheres from the basic equations of stellar structure and 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 Astrophysics			
<b>Pre-requisite(s):</b>	AS4011 or equivalent from first degree	<b>Co-requisite(s):</b>	AS5500	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 3-hours of lectures (x 11 weeks), 1-hour tutorials (x 5 weeks)			
<b>Assessment pattern:</b>	2-hour Written Examination = 75%, Coursework = 25%			
<b>Module Co-ordinator:</b>	Prof A Cameron			
<b>Lecturer(s)/Tutor(s):</b>	Prof A Cameron			

## Physics & Astronomy - Astrophysics - MSc 2016/7 - August 2016

AS5523 Gravitational Dynamics and Accretion Physics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>This theoretical module explores the basics of gravitational dynamics and accretion physics and their application to systems such as circumstellar discs, stellar clusters to galaxies and clusters of galaxies. The module will provide students with the techniques to determine physical properties from observable quantities and to model the dynamics and evolutionary pathways of these systems. 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 self-gravitating bodies is then developed with application to stellar systems. Accretion as a source of energy and mass growth will be explored with particular emphasis on models of viscous accretion discs. Applications of these methods are made to several different astrophysical objects including accretion discs in stellar systems, collisions in globular clusters, the growth of super-massive black holes, to the presence of dark matter in the universe.</p>				
<b>Programme module type:</b>	Optional for MSc in Astrophysics			
<b>Pre-requisite(s):</b>	BSc or equivalent in the physical sciences	<b>Co-requisite(s):</b>	AS5500	
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 3-hour lectures (x 11 weeks), 48 hours of practical classes, 1-hour tutorials (x 5 weeks)			
<b>Assessment pattern:</b>	<b>2-hour Written Examination = 75%, Coursework = 25%</b>			
<b>Module Co-ordinator:</b>	Prof I Bonnell			
<b>Lecturer(s)/Tutor(s):</b>	Prof I Bonnell			

AS5524 Astrophysical Fluid Dynamics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	To be arranged.			
<p>Fluid dynamics is the study of all things that 'flow', whether they are liquids or gases. The underlying concepts and techniques taught in this course are of wide ranging use, finding application in such diverse problems as the collision of galaxies, spacecraft re-entry into the Earth's atmosphere, or the structure and stability of fusion plasmas. Closer to home, the behaviour of fluid flows can readily be observed in rivers, on shorelines and in cloud formations. Fluid mechanics describes the types of flows that result from different forces (such as gravity). It explains how (and why) flows become supersonic and when they may become unstable. These basic principles can then be applied to a variety of problems.</p> <p>In addition to introducing the concepts of fluid dynamics, and describing their application, this course will provide the students with the opportunity to develop the numerical skills required for a computational approach to the problem. This project will account for 20% of the module grade, with the remaining 80% coming from the exam.</p>				
<b>Programme module type:</b>	Optional for MSc in Astrophysics			
<b>Co-requisite(s):</b>	AS5500			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 3 hours of lectures (x 11 weeks), 5 x 1-hour tutorials over the semester			
<b>Assessment pattern:</b>	<b>2-hour Written Examination = 75%, Coursework = 25%</b>			
<b>Module Co-ordinator:</b>	Prof M Jardine			
<b>Lecturer(s)/Tutor(s):</b>	Prof M Jardine			

PH5011 General Relativity				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<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>	<b>2-hour Written Examination = 100%</b>			
<b>Module Co-ordinator:</b>	Dr M Dominik			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Dominik			

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)			
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.				
<b>Programme module type:</b>	Optional for Postgraduate programmes in the School.			
<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 6 weeks), 1-hour tutorials (x 5 weeks), during semester 3 x 3 hour supervised computer lab sessions			
<b>Assessment pattern:</b>	Coursework (worksheets = 50%, 3-hour computing test = 25%, 1-hour Class Test = 25%) = 100%			
<b>Module Co-ordinator:</b>	Dr K Wood			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Wood			



## 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 2016/7 the course will be led by St Andrews, and in 2017/8 by Heriot-Watt. 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:

105 credits: PH5180 - PH5182, PH5184 - PH5187

15 credits: chosen from PH5015, PH5016

MSc:

105 credits: PH5180 - PH5182, PH5184 - PH5187

15 credits: chosen from PH5015, PH5016

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. 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, Dr L O'Faholain (TBC)			

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.			
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 MSc Programme. 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 (TBC)			
<b>Lecturer(s)/Tutor(s):</b>	Prof I D W Samuel, Prof M H Dunn, Dr M Mazilu, Dr C F Rae (TBC)			

### Compulsory modules - Semester 2:

PH5184 Photonics Experimental Laboratory 2 (B21HL)				
<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			

## Physics & Astronomy - Photonics and Optoelectronic Devices - MSc - 2016/7 - August 2016

PH5185 Semiconductor Optoelectronic Devices (B21OD)				
<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			

PH5186 Modern Optics (B21FM)				
<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			

## Optional modules - Semester 1:

PH5015 Applications of Quantum Physics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<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> 3 lectures/tutorials, 1 x 3-hour research lab visit, 3 hours student presentations during the semester.			
<b>Assessment pattern:</b>	2-hour Written Examination = 80%, Coursework = 20%			
<b>Module Co-ordinator:</b>	Dr D Cassettari (TBC)			
<b>Lecturer(s)/Tutor(s):</b>	Dr D Cassettari, Dr M Mazilu (TBC)			

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PH5016 Biophotonics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<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. Optional for EngD Photonics Programm			
<b>Pre-requisite(s):</b>	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 T Brown (TBC)			
<b>Lecturer(s)/Tutor(s):</b>	Dr T Brown, Prof M C Gather, Dr C Penedo-Esteiro (TBC)			

## Doctor of Engineering in Photonics

<http://www.idcphotonics.hw.ac.uk/>

The DEng 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 PH5015, PH5016, PH5180, PH5182. 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:

PH5015 Applications of Quantum Physics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<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>	2-hour Written Examination = 80%, Coursework = 20%			
<b>Module Co-ordinator:</b>	Dr D Cassettari (TBC)			
<b>Lecturer(s)/Tutor(s):</b>	Dr D Cassettari, Dr M Mazilu (TBC)			

PH5016 Biophotonics				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<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. Optional for EngD Photonics Programm			
<b>Pre-requisite(s):</b>	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 T Brown (TBC)			
<b>Lecturer(s)/Tutor(s):</b>	Dr T Brown, Prof M C Gather, Dr C Penedo-Esteiro (TBC)			

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			
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.			
<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, Dr L O'Faholain (TBC)			

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 MSc Programmes.			
<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 (TBC)			
<b>Lecturer(s)/Tutor(s):</b>	Prof I D W Samuel, Prof M H Dunn, Dr M Mazilu, Dr C F Rae (TBC)			

**Optional modules - Distance Learning:**

PH5208 Semiconductor Physics and Devices - Distance Learning				
<b>SCOTCAT Credits:</b>	10	SCQF Level 11	<b>Semester:</b>	1
<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>	Prof G A Turnbull			
<b>Lecturer(s)/Tutor(s):</b>	Prof 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>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>	Prof G A Turnbull			
<b>Lecturer(s)/Tutor(s):</b>	Prof G A Turnbull			

## 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 Disabilities who have Significant and Complex**

**Needs - by Distance Learning ([link](#))**

#### Postgraduate Diploma:

**Adults with Learning Disabilities who have Significant and Complex**

**Needs - by Distance Learning ([link](#))**

#### Master of Science - MSc:

**Adults with Learning Disabilities who have Significant and Complex**

**Needs - by Distance Learning ([link](#))**

**Evolutionary and Comparative Psychology:**

**The Origins of Mind ([link](#))**

**Psychology (Conversion) ([link](#))**

**Research Methods in 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 Disabilities 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 - PS5106) 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			

CE5003 Distance Learning Programme: Offenders 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 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			

CE5004 Distance Learning Programme: Profound and Multiple 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 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			

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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            Unit 2: Qualitative data: sources; issues in sampling            Unit 3: Surveys and Questionnaires            Unit 4: Interviews            Unit 5: Use of standardised assessment instruments            Unit 5: Observational methods            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                      Unit 2: Experimental design                      Unit 3: Quasi-experimental designs                      Unit 4: The analysis of quantitative data                      Unit 5: Analysis of single subject data                      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            Unit 2: Grounded theory studies            Unit 3: Case study methods            Unit 4: Ethnographic studies            Unit 5: Analysing qualitative data            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            Unit 2: Reporting data from a qualitative study            Unit 3: Types of report (empirical, review, case study etc)            Unit 4: Organisation and content in reporting research            Unit 5: Referencing            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            Unit 2: Undertaking a literature review            Unit 3: Writing a research proposal            Unit 4: The practitioner-researcher re-visited            Unit 5: Requirements for course assignment            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. 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. 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. 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. 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. 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 with Learning Disabilities PG - 2016/7 - August 2016

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. 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. 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			

## Psychology & Neuroscience - Adult Support PGCert - 2016/7 - August 2016

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. 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. 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			

PS5404 Protective Service Designs: The Setting and Service Agency				
<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. 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 - 2016/7 - August 2016

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. 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			

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. 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.

This programme has two intakes – September and January.

### 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>	2
<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; Or *Accredited Prior Learning (RPL through formal certifiable learning); 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 - 2016/7 - August 2016

PS5501 The Care of Individuals with Dementia				
<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>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; Or *Accredited Prior Learning (RPL through formal certifiable learning); 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>	1
<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; Or *Accredited Prior Learning (RPL through formal certifiable learning); 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, PS4096, 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>	9.00 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
<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> 10 x 3-hour sessions including seminars, tutorials and practicals over the semester.			
<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>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Bowman			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Bowman, Dr R Spence, Dr S Pehrson and Professor S Reicher			



PS5012 Origins of Human Cognition				
<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 modules Semester 2:

PS4086 Origins and Evolution of Mind Reading (Theory of Mind)				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	9.00 am - 11.00 am Fri			
<p>The module will offer a comparative approach to the emergence of the ability to understand mental states in children and non-human primates, and its alteration in autism. This ability (also known as Theory of Mind) is at the heart of many of humans unique cognitive achievements, but their origins can be traced back in evolution and development. The course will discuss the current state of research in this area, emphasising both empirical and conceptual aspects posed by the combination of the evolutionary and developmental approaches.</p>				
<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>	2-hour Written Examination = 75%, Coursework = 25%			
<b>Module Co-ordinator:</b>	Dr J-C Gomez			
<b>Lecturer(s)/Tutor(s):</b>	Dr J-C Gomez			

PS4096 Mechanisms of Behaviour: integrating psychological and neuroscience perspectives				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	12.00 noon - 2.00 pm Tue			
<p>The aim of this module is to explore some of the many physiological and neural systems that modulate patterns of behaviour in a range of species, including humans. It will highlight the importance of integrating information from psychology and neuroscience disciplines in order to further our understanding of how and why animals and humans behave the way they do in different situations. The module will deal with examples of mechanisms across different levels of complexity (from genes to physiology). The module will include lectures and student presentations/journal club discussions based around current research articles in the field and a practical session with hands on experience of a physiological technique.</p>				
<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 lecture (x 10 weeks), 1 practical class (x 4 weeks) plus office hour.			
<b>Assessment pattern:</b>	Coursework (including presentation) = 100%			
<b>Module Co-ordinator:</b>	Dr K Spencer			
<b>Lecturer(s)/Tutor(s):</b>	Dr K Spencer			

**Optional module 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>	Optional for MSc - Evolutionary and Comparative Psychology: the Origins of Mind.			
<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%			
<b>Module Co-ordinator:</b>	TBC			

**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>	TBC			



## Masters in Psychology (Conversion)

### MSc:

100 credits: SS5104, PS5005, PS5240, PS5231- PS5234

10 credits: PS5235 or PS5236

10 credits: PS5237 or 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 - 5.00 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 univariate and multivariate approaches to data analysis. The assessment will be in the form of 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Ales			

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			

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>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Bowman			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Bowman, Dr, R Spence, Dr S Pehrson, and Professor S Reicher			

## Psychology & Neuroscience - Psychology (Conversion) MSc - 2016/7 - August 2016

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 E Robbins			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Robbins			

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 B Dritschel			

## Psychology & Neuroscience - Psychology (Conversion) MSc - 2016/7 - August 2016

PS5002 Research Project				
<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 S Pehrson			

## Research Methods in Psychology (MSc)

### MSc:

90 credits: PS5003, PS5005, SS5103 and SS5104

30 credits: from SS5101, SS5102, PS5021 or PS4091

60 credits: Dissertation module PS5002

### Compulsory module 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 - 5.00 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 univariate and multivariate approaches to data analysis. The assessment will be in the form of practical tasks completed in class and/or independently.				
<b>Programme module type:</b>	Compulsory for Research Methods in Psychology (MSc)			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Ales			

### 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Kesby and TBC			

## Psychology & Neuroscience - Research Methods in Psychology MSc - 2016/7 - August 2016

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 Research Methods in Psychology (MSc)			
<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 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			
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 MSc Evolutionary and Comparative Psychology: the Origins of Mind, MSc Psychology (Conversion), MSc in Health Psychology, Compulsory for Research Methods in Psychology (MSc)			
<b>Learning and teaching methods and delivery:</b>	<b>Weekly contact:</b> 11 x 3-hour workshops and optional tutorials.			
<b>Assessment pattern:</b>	Coursework = 100%			
<b>Module Co-ordinator:</b>	Dr E Bowman			
<b>Lecturer(s)/Tutor(s):</b>	Dr E Bowman, Dr R Spence, Dr S Pehrson, and Professor S Reicher			

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 MRes in Human Geography Compulsory for Research Methods in Psychology (MSc) 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

### 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

**Compulsory modules Whole Year:**

PS5002 Research Project				
<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 Research Methods in Psychology (MSc) 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			
<b>Module Co-ordinator:</b>	Dr S Pehrson			

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.			
<p>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.</p>				
<b>Programme module type:</b>	Compulsory for Research Methods in Psychology (MSc)			
<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%			
<b>Module Co-ordinator:</b>	TBC			

## 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, Art 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

## Social Anthropology - Anthropology, Art & Perception MRes & MPhil - 2016/7 - August 2016

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.			
<p>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 .</p>				
<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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

## 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, Art 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

## Social Anthropology - Anthropology, Art & Perception MRes & MPhil - 2016/7 - August 2016

SA5021 Anthropology, Art and Perception 2				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<b>Planned timetable:</b>	2.00 pm - 4.00 pm 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. 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. 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

### 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>	TBC			

## Social Anthropology - Anthropology, Art & Perception MRes & MPhil - 2016/7 - August 2016

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. 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 may be selected from Honours modules available.

See <http://www.st-andrews.ac.uk/coursecatalogue/ug/>

## Masters in Research In Social Anthropology

### Programme Requirements

#### MRes:

60 credits: SA5010, SA5011

60 credits from: SA5001, SA5002, SA5003, 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.			
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, Art 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

**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, Art 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

**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>	Compulsory for Anthropology, Social Anthropology Social Anthropology and Amerindian Studies, and Social Anthropology with Pacific Studies Postgraduate Programmes. 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:

SS5101 Being a Social Scientist				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7 & 2017/8			
<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 Compulsory for various MRes Programmes. Optional for Research Methods in Psychology (MSc), for Sustainable Development and Environmental Economics (MSc), for Sustainable Development (MSc), for Sustainable Development and Energy (MSc). Optional 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Kesby and TBC			

SS5102 Philosophy and Methodology of the Social Sciences				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	3.00 pm - 5.00 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 Optional for Research Methods in Psychology (MSc) Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc) Optional for various other MRes 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

## Social Anthropology - Social Anthropology MRes & MPhil - 2016/7 - August 2016

SS5103 Qualitative Methods in Social Research				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	10.00 am - 12.00 noon Tue			
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 Compulsory for Research Methods in Psychology (MSc) Compulsory for various other MRes Programmes Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc) Optional 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

SS5104 Quantitative Research in Social Science				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	1.00 - 5.00 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). Compulsory for MRes in Human Geography. Compulsory for Research Methods in Psychology (MSc) Compulsory for various other MRes Programmes. Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc) Optional for various other MRes Programmes			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Mr J Ales			



# 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

## 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.			
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, Art 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

**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, Art 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

**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 may be selected from Honours modules available.**  
**See <http://www.st-andrews.ac.uk/coursecatalogue/ug/>**

# Masters in Research In Social Anthropology with Pacific 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

## 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, Art 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

**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, Art 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>	TBC			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

**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:

SA5301 Anthropology of the Pacific 1				
<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			

SA5302 Anthropology of the Pacific 2				
<b>SCOTCAT Credits:</b>	30	SCQF Level 11	<b>Semester:</b>	2
<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			

Other optional modules may be selected from Honours modules available.  
 See <http://www.st-andrews.ac.uk/coursecatalogue/ug/>



SS5101 Being a Social Scientist				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7 & 2017/8			
<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>	<p>Compulsory for MRes in Human Geography and MRes in Sustainable Development.</p> <p>Compulsory for various MRes Programmes outwith the School.</p> <p>Optional for Research Methods in Psychology (MSc), for Sustainable Development and Environmental Economics (MSc), for Sustainable Development (MSc), for Sustainable Development and Energy (MSc).</p> <p>Optional for various other MRes Programmes</p>			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr M Kesby and TBC			

SS5102 Philosophy and Methodology of the Social Sciences				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	3.00 pm - 5.00 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>	<p>Compulsory for various MRes Programmes</p> <p>Optional for Research Methods in Psychology (MSc)</p> <p>Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc)</p> <p>Optional for various other MRes Programmes</p>			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

## PG Course Catalogue 2016-2017 - Social Science modules

SS5103 Qualitative Methods in Social Research				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	2
<b>Academic year:</b>	2016/7 & 2017/8			
<b>Planned timetable:</b>	10.00 am - 12.00 noon Tue			
<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 MRes in Human Geography Compulsory for Research Methods in Psychology (MSc) Compulsory for various other MRes Programmes Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc) Optional 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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	TBC			

SS5104 Quantitative Research in Social Science				
<b>SCOTCAT Credits:</b>	15	SCQF Level 11	<b>Semester:</b>	1
<b>Academic year:</b>	2016/7 & 2017/8			
<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 univariate and multivariate approaches to data analysis. The assessment will be in the form of practical tasks completed in class and/or independently.</p>				
<b>Programme module type:</b>	Compulsory for MSc Psychology (Conversion). Compulsory for MRes in Human Geography. Compulsory for Research Methods in Psychology (MSc) Compulsory for various other MRes Programmes. Optional for Sustainable Development (MRes), Sustainable Development and Environmental Economics (MSc) Optional for various other MRes Programmes			
<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 M Kesby			
<b>Lecturer(s)/Tutor(s):</b>	Dr J Ales			



Module Code	Module Title	Credits	Semester	Planned Timetable
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### ANCIENT HISTORY

AN5003	Integrated Study Abroad (Athens)	30	2	To be arranged.
AN5004	Integrated Study Abroad (Rome)	30	2	To be arranged.
AN5101	Greek and Roman Warfare	30	1	To be arranged.
AN5103	Religion and Society in the Ancient Greek World	30	1	To be arranged.
AN5105	The Achaemenid Persian Empire	30	2	To be arranged.
AN5108	Herodotus and Early Greek Historiography	30	2	To be arranged.
AN5112	The Archaeology of the City of Rome	40	2	To be arranged.
AN5137	Tyranny and Kingship in the Ancient Mediterranean	30	2	To be arranged.
AN5140	Religion and Society in the Roman Empire	30	2	To be arranged.
AN5141	The World of Late Antiquity	30	1	To be arranged.
AN5142	Ancient Empires	30	2	To be arranged.
AN5143	Slavery in the Ancient Mediterranean	30	1	To be arranged.

### ARABIC (see also MIDDLE EASTERN LITERATURE)

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

### ART HISTORY

AH5085	Art and Politics in the Trecento	30	2	To be arranged.
AH5094	Current Issues in Renaissance Art	30	2	To be arranged.
AH5099	Dissertation for MLitt Programme/s	60	Summer	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	1	To be arranged.
AH5190	Experimental Art of the 1960s	30	2	3.00 pm Thu
AH5196	The Book of Hours in the Late Middle Ages	30	2	11.00 am Fri

Module Code	Module Title	Credits	Semester	Planned Timetable
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### ART HISTORY (continued)

AH5198	The Dream of the North: Twentieth-Century Scandinavian Art and Design	30	1	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.
AH5560	Theory and Practice of Museums, Art Galleries and Related Organisations, Part 1: Collections in Context	40	1	To be arranged.
AH5562	Project Work (Museum and Gallery Studies)	40	Whole Year	To be arranged.

### ASTRONOMY (see also PHYSICS)

AS4010	Extragalactic Astronomy	15	1	12.00 noon Mon, Tue, Thu (TBC)
AS4011	The Physics of Nebulae and Stars 1	15	1	10.00 am 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)
AS5001	Advanced Data Analysis	15	1	9.00 am Tue, Thu, 10.00 am Mon, 12.00 noon Thu and 3.00 pm - 5.00 pm Tue (Lab) (TBC)
AS5002	Magnetofluids and Space Plasmas	15	1	11.00 am Mon, Tue, Thu (TBC)
AS5003	Contemporary Astrophysics	15	1	12.00 noon Wed, Fri and 3.00 pm Mon (TBC)
AS5500	Research Skills in Astrophysics	30	Whole Year	To be arranged.
AS5521	Observational Techniques in Astrophysics	15	Whole Year	Semester 1: Labs: 2.00 pm - 5.30 pm on Mon and Thu Semester 2: Lectures: 5.00 pm - 6.00 pm on Monday
AS5522	Stellar Physics	15	2	To be arranged.
AS5523	Gravitational Dynamics and Accretion Physics	15	2	To be arranged.
AS5524	Astrophysical Fluid Dynamics	15	2	To be arranged.
AS5599	Astrophysics Research Project (MSc)	60	Summer	Available only to students on the MSc in Astrophysics.

### BIOLOGY

BL1801	The Global Aquaculture Industry (by Distance Learning)	10	1 & 2 (taught twice)	To be arranged.
BL2802	Fish and Invertebrate Biology (by Distance Learning)	10	1 & 2 (taught twice)	To be arranged.
BL2803	Aquaculture - Products and Markets (by Distance Learning)	10	1 & 2 (taught twice)	To be arranged.
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.

Module Code	Module Title	Credits	Semester	Planned Timetable
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### BIOLOGY (continued)

BL4804	Biology for Aquaculture - Vertebrates	10	Distance	To be arranged.
BL5103	Population Biology of Marine Mammals	15	2	Weeks 5 - 7
BL5104	Conservation and Management of Marine Mammals	15	2	Weeks 8 - 11
BL5111	Quantitative Methods for Biology	10	1	To be arranged. (Weeks 1 - 7)
BL5113	Statistical Modelling of Biological Data	20	1	To be arranged. (Weeks 8 - 11)
BL5121	Current Issues in Marine Mammal Behaviour	15	2	Weeks 5 - 7
BL5122	Current Issues in Biologging	15	2	Weeks 1 - 4
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	Weeks 1 - 4
BL5199	Marine Mammal Science Research Project	60	Whole Year	To be arranged.
BL5201	Biology of Marine Mammals	10	1	To be arranged. Weeks 1 - 7
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 (Weeks 1 - 11)
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 (June to mid-August)
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	9.00 am - 12.00 noon or 1.00 pm Mon to Fri (Weeks 1-5)
CH3721	Physical Chemistry Laboratory	10	1	9.00 am - 12.00 noon or 1.00 pm Mon to Fri (Weeks 6-10)
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.
CH4715	Functional Materials and Electrons in Solids	10	2	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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### CHEMISTRY (continued)

CH4716	Electrochemistry and Computational Chemistry	10	1	To be arranged.
CH4717	Fundamentals of the Spectroscopy of Molecules and Solids	10	2	
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 Physical 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.
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.
CL5414	Magic in the Greco-Roman World	30	1	To be arranged.
CL5421	Ted Hughes and the Classics	30	1	To be arranged.
CL5422	The Expansion of the Afterlife	30	2	To be arranged.
CL5423	Philosophy in Rome	30	1	To be arranged.
CL5425	Classical Reception	30	2	To be arranged.
CL5429	Ethnography in Greek and Roman Culture	30	2	To be arranged.
CL5430	Between Causes and Kriegsschuld: The Debate about the Hannibalic War from Fabius Pictor to Appian	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.
CO5004	Specialised Reading and Translating for Comparative Literature	10	2	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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### 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.
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.
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.
CS5052	Data-Intensive Systems	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.
CS5201	Special Project for Research Engineers	15	2	At times to be arranged with the supervisor
CS5899	Erasmus Mundus Dissertation in Dependable Software Systems	45	Whole Year	To be arranged.

### DIVINITY

DI3716	Reading in the Greek New Testament	30	1	To be arranged.
DI4726	Hebrew Readings	30	2	To be arranged.
DI4731	Ancient Jewish Literature from 1 Enoch to the Mishnah	30	2	To be arranged.
DI4937	The Study of Theology	30	2	To be arranged.
DI5080	Guided Study in Divinity	10	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.
DI5305	Practical Theology Special Topic	20	1 or 2	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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### DIVINITY (continued)

DI5350	Analytic Theology: God, History and Revelation	40	1	To be arranged.
DI5351	Reconciliation: Divine and Human	40	1	To be arranged.
DI5352	Persons: Divine and Human	40	2	To be arranged.
DI5429	Biblical Themes	40	1	To be arranged.
DI5431	Theological Engagements with the Arts: Rationales, Methods and Texts	40	2	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	1	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
DI5523	The Doctrine of the Trinity	20	1	3.00 pm - 5.00 pm Tue and 3.00 pm - 5.00 pm Thu
DI5525	Christology	20	1	To be arranged.
DI5526	A Selected Mediaeval Theologian	20	2	11.00 am - 1.00 pm Mon and 9.00 am - 11.00 am Wed
DI5901	The Bible and Contemporary Issues	40	2	To be arranged.
DI5908	Public Theology	40	2	To be arranged.
DI5910	Church, Post-Colonial Theology and Globalisation	40	1	To be arranged.
DI5923	Theological Issues in Medical Ethics	40	1	Distance learning
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.

### EARTH AND ENVIRONMENTAL SCIENCES

ES3008	Geochemistry	15	1	10.00 am Tue and Thu (lectures), 2.00 - 5.00 Fri (practicals)
ES3011	Global Biogeochemical Cycles	15	2	To be arranged.
ES4007	Petroleum Exploration and Geophysics	15	1	11.00 am - 1.00 pm Thu (lectures), 2.00 - 5.00 pm Thu (practicals)
ES4031	Analytical Sciences	5	1	To be arranged.
ES5005	Isotope Geochemistry: Theory, Techniques, and Applications	15	1	To be arranged.
ES5006	Metallogeny	15	2	9:00 am - 11:00 am Thu (lectures); 9.00 am - 1.00 pm (practicals)_
ES5010	Advanced Geochemistry	15	2	To be arranged.
ES5011	Water in the Environment	15	1	To be arranged.
ES5012	Biogeochemistry	15	2	To be arranged.
ES5013	Advanced Petrogenesis	15	1	10.00 am Mon and Tue (lectures). 10.00 - 1.00 pm Wed or Fri (practicals)
ES5050	Earth's Greatest Hits	15	2	Lectures: 11.00 am - 12.00 noon Thu, Seminars: 10.00 am - 1.00 pm Wed
ES5051	Geochemistry Field Excursion	15	2	2 weeks of field work and post-trip analysis in April
ES5099	Research Project	60	Summer	To be arranged.
ES5201	Project Scoping	15	1	To be arranged.
ES5299	Project in Oil and Gas Innovation	120	2	Supervisor meetings: 1 per week for 25 weeks

Module Code	Module Title	Credits	Semester	Planned Timetable
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### ECONOMICS AND FINANCE

EC5201	Macroeconomics	20	1	To be arranged.
EC5202	Microeconomics	20	1	To be arranged.
EC5203	Econometric Methods and Applications	20	1	To be arranged.
EC5220	Game Theory	20	2	To be arranged.
EC5221	Econometric Time Series Analysis	20	2	To be arranged.
EC5225	Experimental Economics	20	2	To be arranged.
EC5299	Dissertation in Economics	60	Whole Year	To be arranged.
EC5399	Dissertation in Finance and Economics	40	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	To be arranged.
EC5606	Corporate Governance and Risk	20	2	To be arranged.
EC5608	Financial Intermediation	20	2	To be arranged.
EC5609	Financial Econometrics	20	1	To be arranged.
EC5610	Mergers and Acquisitions	20	2	To be arranged.
EC5611	Portfolio Theory and Management	20	2	To be arranged.
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.

### ENGLISH

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
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
EN5200	Life, Text, Afterlife	40	1	To be arranged.
EN5204	Literary History, Politics, Culture	40	2	To be arranged.
EN5301	The Continental Renaissance	20	2	To be arranged
EN5302	Shakespeare and Textual Culture	20	1	To be arranged.
EN5303	Renaissance Popular Culture	20	1	To be arranged
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

Module Code	Module Title	Credits	Semester	Planned Timetable
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	0	Whole Year	To be arranged
<b>ENVIRONMENTAL HISTORY</b>				
EH5003	Environmental History: Nature and the Western World (1800 - 2000)	40	1	To be arranged.
EH5004	Environmental Disasters: Crisis, Catastrophe, and Risk in the Modern World (1755 to Present) (40)	40	1	To be arranged.
EH5099	Dissertation for MLitt Programme/s	60	Whole Year	At times to be arranged with the supervisor.
EH5101	Environmental Disasters: Crisis, Catastrophe, and Risk in the Modern World (1755 to Present) (20)	20	1	To be arranged.
EH5102	Environmental History: Nature and the Western World (1800-2000) (20)	20	1	To be arranged.
<b>FILM STUDIES</b>				
FM4106	War and Cinema	30	2	12.00 noon - 2.00 pm Tue, 7.00 pm - 9.30 pm Mon (screenings)
FM4117	Modernity and the Moving Image	30	1	2.00 pm - 4.00 pm Mon, 4.30 pm - 7.00 pm Tue (screenings)
FM4118	Film and Fashion	30	2	2.00 pm - 4.00 pm Mon, 9.30 am - 12.00 noon Mon (screening)
FM4207	British Cinemas: Conventions, Subversions, and Outsiders	30	2	2.00 pm - 4.00 pm Tue, 4.30 pm - 7.00 pm Tue (screenings)
FM4308	Film Sound	30	2	10.00 am - 12.00 noon Tue, 4.30 - 7.00 pm Mon (screening)
FM5001	Theory and Practice of Research in Film Studies	60	Whole Year	12.00 noon - 2.00 pm Mon (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 (Screening 2.30 pm - 4.30 pm Tue)
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</b>				
GE5051	Environmental Management in Scotland	20	1	To be arranged.
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.
GG5227	Introduction to Geographic Information Science	20	1	Lectures: 10.00 am - 12.00 noon Thu, Practicals: 1.00 pm - 4.00 pm Thu



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.
<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
GK5103	Comedy and Society in Classical Athens	40	2	To be arranged.
GK5105	Greek Aesthetics	30	1	To be arranged.
GK5109	Greek Biography	30	1	To be arranged.
GK5110	Aesthetics and Truth in Hellenistic Historical Writing	30	2	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
<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	2	To be arranged.
IS5105	Network Systems Management	15	1	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>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.

Module Code	Module Title	Credits	Semester	Planned Timetable
<b>INTERDISCIPLINARY MODULES</b>				
ID5011	Geographic Information Systems for Environmental Management	15	1	To be arranged (Weeks 1 - 5)
ID5059	Knowledge Discovery and Datamining	15	2	11.00 am Mon (odd weeks), Wed and Fri
ID5102	Introduction to University Teaching 2: Curriculum Design and Assessment	10	2	2.00 pm - 5.00 pm Thu on weeks 1,3,6,8 and 10.
<b>INTERNATIONAL RELATIONS</b>				
IR5001	International Security	30	1	1.00 pm - 3.00 pm Fri
IR5007	Terrorism and Liberal Democracy	30	2	Lecture: 1.00 pm Tue and Tutorial: 11.00 am - 12.30pm Wed
IR5036	Critical Security Studies	30	1	Lecture: 10.00 am - 11.00 am Mon, Tutorials: one of 2.00 pm - 3.00 pm or 3.00 pm - 4.00 pm Tue
IR5040	Emergent Great Powers	30	2	10.00 am - 12.00 noon Mon
IR5042	Gender and Terrorism	30	2	1.00 pm - 3.00 pm Mon
IR5055	Agency and Strategy in Non-Western Political Thought	30	2	12.00 noon - 2.00 pm Tue
IR5059	Political Order and Violence in the Middle East	30	1	11.00 am - 1.00 pm Wed
IR5060	Conflict and Intervention in the Twenty-First Century	30	2	11.00 am - 1.00 pm Wed
IR5061	Security and Justice Institutions in World Politcs	30	2	10.00 am - 12.00 noon Tue
IR5062	Transitional Justice and Post-Conflict Reconstruction in Latin America	30	2	2.00 pm - 4.00 pm Tue
IR5099	Dissertation for MLitt Programme/s	60	Whole Year	5.00 pm - 6.00 pm Thu
IR5151	Issues in Peace and Conflict	30	1	4.00 pm - 6.30 pm Tue
IR5227	Conflicts, Security and Democracy in the Greater Caucasus (40)	40	2	To be arranged.
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	10.00 am - 12.00 noon Wed
IR5408	Global Constitutionalism	30	2	2.00 pm - 4.00 pm Thu
IR5412	'Reason of State': Origin, Nature and Career of a Concept	30	2	12.00 noon - 2.00 pm Wed
IR5414	Politics After "The Death of God": Evil and Tragedy in Modern Politics	30	2	2.00 pm - 4.00 pm Mon
IR5415	Social Movements and Ideologies	30	1	10.00 am - 12.00 noon Wed
IR5501	Core in Middle East and Central Asian Security Studies	30	1	2.00 pm - 5.00 pm Tue
IR5510	Central Asia in World Order	30	1	2.00 pm - 4.00 pm Thu
IR5518	Conflict in the Middle East	30	2	2.00 pm - 4.00 pm Tue
IR5527	Conflicts, Security and Democracy in the Greater Caucasus (30)	30	2	3.00 pm - 5.00 pm Mon
IR5528	Social Movements, Revolutions and Authoritarianism in North Africa	30	2	3.00 pm - 5.00 pm Thu
IR5601	Research Methods in International Relations	30	1	11.00 am - 1.00 pm Wed
IR5701	Peace and Conflict Theory	30	1	2.00 pm - 4.00 pm Mon
IR5800	Modern War and Strategy	30	1	10.00 am - 12.00 noon Thu
IR5801	Strategic Thought	30	1	2.00 pm - 4.00 pm Mon
IR5901	Fundamental Issues and Structures of Terrorism	30	1	11.00 am Mon (lecture), 2.00 pm - 3.30 pm and 3.30 pm - 5.00 pm Tue (tutorials)
IR5902	Research Methods	30	1	3.00 pm Mon (lecture) 10.30 am - 11.30 pm Tue (tutorial)

Module Code	Module Title	Credits	Semester	Planned Timetable
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### INTERNATIONAL RELATIONS

IR5904	Terrorism and Theories of Collective Action	30	2	12.00 noon Mon (lecture), 11.00 am Tue (tutorial)
IR5921	Fundamentals of Terrorist Violence	30	2	4.00 pm Mon (lecture), 11.00 am - 12.30 pm and 12.30 pm - 2.00 pm Tue (tutorial)
IR5922	Terrorism after 1945	30	2	2.00 pm Thu
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.

### ITALIAN

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).

### LATIN

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
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.
LT5022	Latin Literary Interactivity	30	TBC	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
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### LEGAL AND CONSTITUTIONAL HISTORY

LC5001	The Idea of Law	20	1	To be arranged.
LC5002	Comparative Studies in Legal and Constitutional Research	20	2	To be arranged.
LC5021	Approaches to Legal History	20	1	To be arranged.
LC5022	The Philosophy of International Law	20	1	To be arranged.
LC5023	Special Topic in Legal and Constitutional Studies (1)	20	1	To be arranged.
LC5024	Comparative Studies in Legal History	20	2	To be arranged.
LC5025	Global Constitutionalism	20	1	To be arranged.
LC5026	Special Topic in Legal and Constitutional Studies (2)	20	2	To be arranged.
LC5099	Dissertation in Legal and Constitutional Studies	60	2	To be arranged.

### 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	Advanced Corporate Finance	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.
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.

Module Code	Module Title	Credits	Semester	Planned Timetable
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### MATHEMATICS AND STATISTICS

MT4113	Computing in Statistics	15	1	12.00 noon Mon (odd weeks) and Wed, 12.00 noon –2.00 pm Fri
MT5099	Dissertation for MSc Programme/s	60	Whole Year	At times to be arranged with the supervisor.
MT5611	Advanced Symbolic Computation	20	2	9.00 am Mon (odd weeks), Wed and Fri
MT5751	Estimating Animal Abundance	15	2	12.00 noon Mon (odd), Wed and Fri
MT5753	Statistical Modelling	20	1	2.00 pm Mon - Fri (Weeks 5 - 9)
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
MT5824	Topics in Groups	20	1	10.00 am Mon (odd weeks), Wed and Fri
MT5825	Measure and Ergodic Theory	20	1	11.00 am Mon (odd weeks), Wed and Fri
MT5830	Topics in Geometry and Analysis	20	2	10.00 am Mon (odd weeks), Wed and Fri
MT5831	Advanced Bayesian Inference	20	1	10.00 am Mon (even weeks), Tue and Thu
MT5836	Galois Theory	20	2	11.00 am Mon (odd weeks), Wed and Fri
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.

### MEDIAEVAL HISTORY

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

### MEDIAEVAL STUDIES

MS5001	Approaches to Mediaeval Studies	40	Whole Year	To be arranged.
MS5021	Core Language and Text Skills 1 (Greek or Arabic)	20	1	To be arranged.
MS5022	Core Language and Text Skills 2 (Greek or Arabic)	20	2	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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### MEDIAEVAL STUDIES (continued)

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.

### 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.
MD5190	Research Project in Medicine	120	Whole Year	To be arranged.
MD5201	Issues in Global Health	15	1	10.00 am - 12.00 noon Wed and 9.00 am - 11.00 am Fri (TBC)
MD5202	Principles in Implementation Science	15	1	10.00 am - 12.00 noon Tue and 2.00 pm - 4.00 pm Thu (TBC)
MD5203	Ten Global Health Problems	15	1	9.00 am - 11.00 am Mon and 10.00 am - 12.00 noon Thu (TBC)
MD5204	Globalisation and Health	15	2	11.00 am - 1.00 pm Mon and 11.00 am - 1.00 pm Fri (TBC)
MD5205	Inequalities and Inequities in Global Health	15	2	2.00 pm - 4.00 pm Tue and 2.00 pm - 4.00 pm Thu (TBC)
MD5206	Evidence Synthesis for Global Health Policy, Programming, and Practice	15	2	2.00 pm - 4.00 pm Mon and 11.00 am - 1.00 pm Thu (TBC)
MD5299	Dissertation in Global Health Implementation	60	Whole Year	To be arranged.

### MIDDLE EASTERN HISTORY

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.
MH5301	Directed Reading in Middle Eastern History 1	20	1	To be arranged.
MH5302	Directed Reading in Middle Eastern History 2	20	2	To be arranged.
MH5411	Iran and the World since 1921 (30)	30	2	To be arranged.

### MIDDLE EASTERN LITERATURE (see also ARABIC and PERSIAN)

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).

Module Code	Module Title	Credits	Semester	Planned Timetable
<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.
MO5006	Society and Religious Change in Sixteenth-Century France	40	1 or 2	To be arranged.
MO5007	The European Renaissance	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.
MO5023	Disease and Environment (c.1500 - c.2000) (40)	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.
MO5101	Aspects of Reformation 1	20	1	To be arranged.
MO5102	Aspects of Reformation 2	20	2	To be arranged.
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)	20	1	To be arranged.
MO5301	History of Imperial Russia 1815-1917	40	2	To be arranged.
MO5402	The Soviet Union (1917-1991)	40	2	To be arranged.
MO5503	Central and Eastern Europe since 1945	40	1	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	1 or 2	To be arranged.
MO5607	The 1960s: An International Perspective	40	1 or 2	To be arranged.
MO5609	Directed Reading in Modern History 2	40	2	To be arranged.
MO5610	Themes in Russian Nineteenth- and Twentieth-Century Intellectual History	40	2	To be arranged.
MO5613	History of Modern Science	40	1	To be arranged.
MO5621	History in the Making: Theories, Approaches and Practice 1	20	1	To be arranged.
MO5622	History in the Making: Theories, Approaches and Practice 2	20	2	To be arranged.
MO5630	Directed Reading in Modern History (20)	20	1 & 2 (taught twice)	To be arranged.
MO5710	Crossing Borders: European History in Transnational Perspective	40	1	To be arranged.
MO5810	Masterclass in Central and East European Studies 1	20	1	To be arranged.
MO5811	Masterclass in Central and East European Studies 2	20	2	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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### MODERN LANGUAGES

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.
ML5104	Dissertation Report (Mundus)	20	2	To be arranged.
ML5105	Europe and America: Dialogues and Identity Formation in Text, Film and Theory	20	1	11.00 am Tue and Wed
ML5106	Short Dissertation Report (Master Mundus)	10	2	To be arranged.
ML5107	Dissertation Progress (Mundus)	20	1	
ML5108	Work-Related Project (Master Mundus)	10	2	To be arranged.
ML5199	Mundus Dissertation	40	Whole Year	To be arranged.

### PERSIAN (see also MIDDLE EASTERN LANGUAGES)

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

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	To be arranged.
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	1	To be arranged.
PY5205	Origins and History of Analytic Philosophy	20	1	To be arranged.
PY5212	Introduction to Formal Epistemology	20	2	2.00 pm - 4.00 pm Mon
PY5213	Texts in the History of Political Philosophy	20	2	To be arranged.
PY5310	Philosophy of Mind	20	2	To be arranged
PY5312	Aesthetics	20	2	To be arranged
PY5315	Philosophy of Law	20	2	To be arranged
PY5319	Topics in Recent Moral Theory	20	1	To be arranged
PY5320	Mediaeval Philosophy	20	2	To be arranged.
PY5324	Philosophy of Logic	20	2	To be arranged
PY5326	Twentieth-Century Philosophers	20	2	To be arranged.
PY5402	Advanced Epistemology	20	2	To be arranged
PY5403	Intuitions and Philosophical Methodology	20	1	To be arranged.

### 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 pm 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 (TBC)
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 Mon, Wed, Fri (TBC)



Module Code	Module Title	Credits	Semester	Planned Timetable
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### PHYSICS (continued)

PH4036	Physics of Music	15	1	12.00 noon Mon, 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 (TBC)
PH5002	Foundations of Quantum Mechanics	15	1	2.00 pm Mon, Tue, Fri (TBC)
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 (TBC)
PH5005	Laser Physics 2	15	1	10.00 am Mon, Tue, Wed, Thu (TBC)
PH5011	General Relativity	15	1	9.00 am Wed, Fri, 3.00 pm Thu (TBC)
PH5012	Quantum Optics	15	1	11.00 am Mon, (9.00 am Tue, Thu - weeks 1 - 6, 11.00 am Tue, Thu - weeks 7 - 12) (TBC)
PH5014	The Interacting Electron Problem in Solids	15	1	4.00 pm Mon, Tue, Thu (TBC)
PH5015	Applications of Quantum Physics	15	1	12.00 noon Mon, Tue, Thu (TBC)
PH5016	Biophotonics	15	1	9.00 am Mon, Wed, Fri (TBC)
PH5023	Monte Carlo Radiation Transport Techniques	15	1	2.00 pm Mon, Tue, Fri (TBC)
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.
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.
PH5208	Semiconductor Physics and Devices - Distance Learning	10	1	To be arranged.
PH5209	Polymers and Liquid Crystals for Displays - Distance Learning	5	1	To be arranged.

### PSYCHOLOGY

PS4085	Evolution and Development of Social and Technical Intelligence	15	1	11.00 am - 1.00 pm Fri
PS4086	Origins and Evolution of Mind Reading (Theory of Mind)	15	2	9.00 am - 11.00 am Fri
PS4091	Computer-aided Research	15	1	9.00 am - 11.00 am Tue
PS4096	Mechanisms of Behaviour: integrating psychological and neuroscience perspectives	15	2	12.00 noon - 2.00 pm 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	9.00 am Seminars, 2.00 pm practicals/tutorials.

Module Code	Module Title	Credits	Semester	Planned Timetable
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### PSYCHOLOGY (continued)

PS5011	Empirical Approaches to the Evolution of Communication	15	1	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.
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).
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).

Module Code	Module Title	Credits	Semester	Planned Timetable
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### PSYCHOLOGY (continued)

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).
PS5406	Adult Support, Protection and Safeguarding: Ecological Model Assignment	10	Whole Year	100 notional hours of learning time (delivered by online distance learning).
PS5502	Implementing Effective Care	20	1	200 notional hours of learning time. Delivered by distance learning.
PY5099	Dissertation for MLitt Programme	60	Whole Year	At times to be arranged with the supervisor.

### PSYCHOLOGY - Distance Learning

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, Victimisation 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).

### RUSSIAN

RU5011	New Approaches to the Russian Literary Canon (40)	40	1	To be arranged.
RU5013	New Approaches to the Russian Literary Canon (20)	20	1	To be arranged.
RU5014	Specialised Research in Russian Studies	20	2	To be arranged.

### SCOTTISH HISTORY

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	To be arranged.
SC5203	Building Britain: The Construction and Deconstruction of Britishness since 1707	40	1	To be arranged.
SC5301	Scotland's Pasts: Writing Scotland from the Middle Ages to the Present 1	20	1	To be arranged.
SC5302	Scotland's Pasts: Writing Scotland from the Middle Ages to the Present 2	20	2	To be arranged.

Module Code	Module Title	Credits	Semester	Planned Timetable
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### SOCIAL ANTHROPOLOGY

SA5010	Research Methods in Social Anthropology	30	2	11.00 am Wed
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	2.00 pm - 4.00 pm 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.
SA5301	Anthropology of the Pacific 1	30	1	To be arranged.
SA5302	Anthropology of the Pacific 2	30	2	To be arranged.

### SOCIAL SCIENCES

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

### SUSTAINABLE DEVELOPMENT

SD5001	Interrogating Sustainable Development	30	1	2.00 pm - 5.00 pm Tue
SD5003	Master Class in Sustainable Development	30	2	2.00 pm - 5.00 pm Tue
SD5023	Economics for the Environment	20	2	11.00 am - 1.00 pm Wed
SD5101	Development and Environment	20	1	10.00 am - 12.00 noon Wed
SD5102	Public Policy and the Environment	20	2	To be arranged.
SD5299	Dissertation in Sustainable Development and Energy	60	Whole Year	T12.00 noon - 1.00 pm Tue