School of Computer Science

Head of School Programmes

Professor A Dearle

Postgraduate Diploma:	Advanced Computer Science Information Technology Management & Information Technology
M.Sc.:	Advanced Computer Science Artificial Intelligence Information Technology Management & Information Technology Networks & Distributed Systems Software Engineering
Erasmus Mundus M.Sc.	Software Engineering

Programme Requirements

Advanced Computer Science

Postgraduate Diploma: 80 credits from modules CS5011, CS5021, CS5031, CS5900 and 40 credits from CS5012, CS5013, CS5019, CS5022, CS5023, CS5029, CS5032, CS5033, CS5039, and (except with permission from the Head of School) pass in CS5001.

M.Sc.: Requirements for Postgraduate Diploma, including (except with permission from the Head of School) a pass at grade 13.5 or better in CS5001, plus 60 credits from CS5999

Artificial Intelligence

M.Sc.: 80 credits from modules CS5011, CS5021, CS5031, CS5900, 40 credits from CS5012, CS5013, CS5019, and (except with permission from the Head of School) pass in CS5001. plus 60 credits from CS5999, the dissertation topic being in Artificial Intelligence

80 credits from modules CS5011, CS5021, CS5031, CS5900, 40 credits from CS5012, CS5013, CS5019, CS5022, CS5023, CS5029, CS5032, CS5033, CS5039 including either grade 13.5 or better in CS5011 and in one of CS5012, CS5013, CS5019, or 40 credits from CS5012, CS5013, CS5019, and (except with permission from the Head of School) a pass at 13.5 or better in CS5001, plus 60 credits from CS5999, the dissertation topic being in Artificial Intelligence

Information Technology

Postgraduate Diploma: 100 credits from IS5102, IS5103, IS5104, IS5107, IS5109 plus 20 credits from IS5105 or IS5106

M.Sc.: 120 credits from modules as for Postgraduate Diploma, 60 credits from IS5198.

Management & Information Technology

Postgraduate Diploma:	80 credits from modules IS5102, IS5103, MN5461, MN5470, 20 credits from MN5553, MN5556, MN5601, and 20 credits from IS5104, IS5105
M.Sc.:	120 credits from modules as for Postgraduate Diploma, plus 5 credits from IS5101, and 60 credits from IS5199 or MN5599.

Networks & Distributed Systems

M.Sc.:	80 credits from modules CS5011, CS5021, CS5031, CS5900, 40 credits from CS5022, CS5023, CS5029, and (except with permission from the Head of School) pass in CS5001. plus 60 credits from CS5999, the dissertation topic being in Networks & Distributed Systems
	80 credits from modules CS5011, CS5021, CS5031, CS5900, 40 credits from CS5012, CS5013, CS5019, CS5022, CS5023, CS5029, CS5032, CS5033, CS5039 including either grade 13.5 or better in CS5021 and in one of CS5022, CS5023, CS5029, or 40 credits from CS5022, CS5023, CS5029, and (except with permission from the Head of School) a pass at 13.5 or better in CS5001, plus 60 credits from CS5999, the dissertation topic being in *Networks & Distributed Systems*

Software Engineering

M.Sc.:	80 credits from modules CS5011, CS5021, CS5031, CS5900, 40 credits from CS5032, CS5033, CS5039, and (except with permission from the Head of School) pass in CS5001. plus 60 credits from CS5999, the dissertation topic being in Software Engineering
	80 credits from modules CS5011, CS5021, CS5031, CS5900, 40 credits from CS5012, CS5013, CS5019, CS5022, CS5023, CS5029, CS5032, CS5033, CS5039 including either grade 13.5 or better in CS5031 and in one of CS5032, CS5033, CS5039, or 40 credits from CS5032, CS5033, CS5039, and (except with permission from the Head of School) a pass at 13.5 or better in CS5001, plus 60 credits from CS5999, the dissertation topic being in *Software Engineering*

Modules

CS5001 Object-Oriented Programming

Credits:	5.0	Semester	1

Programme(s):	Compulsory module for Advanced Computer Science, Artificial Intelligence, Networks & Distributed Systems, and Software Engineering Taught Postgraduate Programmes.

Description: This module is a core module for students (except where exempted by the Head of School) on each of our computer science MSc programmes, and for the associated PG Diploma programme. It introduces and revises object-oriented programming up to the threshold required to complete programming assignments within other MSc modules. The content will include Data types, Method and Class structures, Repetition structures (while, for etc), Exception handling, I/O mechanisms and Commenting & Documentation techniques. Students complete a workbook of exercises at their own pace, with a small number of lectures but extensive demonstrator support in the laboratory sessions.

Class Hour:	Variable
Teaching:	Lectures, tutorials and practical classes.
Assessment:	Continuous Assessment = 100%

CS5011 Advanced Artificial Intelligence

Credits:	20.0	Semester	1

Programme(s):   Compulsory module for Advanced Computer Science, Artificial Intelligence, Networks & Distributed Systems, and Software Engineering Taught Postgraduate Programmes.

Description: This module will cover foundational knowledge of Artificial Intelligence (AI). The module will give an overview of AI and its philosophy. It will cover basic topics in logic and using logic for representation of knowledge. It will show how search is used to solve combinatorial problems in AI. The fundamentals of machine learning, neural networks and robotics will be shown, together with their relation to cognitive science. A basic understanding of an Artificial Intelligence programming language such as Prolog will be provided. The notion of uncertainty in Artificial Intelligence will be covered. Finally, it will be shown how to implement AI ideas in software and how to evaluate such implementations.

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 40%, Two-and-a-half Hour Examination = 60%

CS5012 Language & Perception

Credits:	20.0	Semester	2

Prerequisites: CS5011, CS5021 and CS5031

Programme(s):   **Optional** module for Advanced Computer Science, Artificial Intelligence, Networks & Distributed Systems and Software Engineering Taught Postgraduate Programmes.

Description: This module will cover the major aspects of natural language processing and speech understanding as well as parts from image and musical processing. It will cover computational syntax (in particular, stochastic parsing), computational semantics, discourse processing, machine translation, speech recognition, musical and visual processing. The difference between symbolic (logical, rule-based) approaches and sub-symbolic (statistical, neural-net) approaches will be shown, together with the various applications of these two paradigms and their evaluation. Combinations of the two approaches will be taught as well, in particular the integrative paradigm known as Data-Oriented Parsing. The module will emphasise a unifying view of language and perceptual processing.

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 40%, Two-and-a-half Hour Examination = 60%

CS5013 Knowledge & Reasoning

Credits:	20.0	Semester	2

Prerequisites: CS5011, CS5021 and CS5031

Programme(s):   **Optional** module for Advanced Computer Science, Artificial Intelligence, Networks & Distributed Systems and Software Engineering Taught Postgraduate Programmes.

Description: This module will build on some of the foundations covered in the core module (CS5011), as well as extending understanding to a research level in the areas of Knowledge Representation and Reasoning with knowledge. The module will cover advanced means of knowledge representation using logic. The notion of inference in logical systems will be introduced. Automated reasoning will be implemented using advanced AI programming techniques in a language such as Prolog. Constraint Satisfaction and Constraint Programming will be taught, with emphasis on modeling and propagation in constraint programming. It will be shown how the various models and techniques can be tested and evaluated.

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 40%, Two-and-a-half Hour Examination = 60%

CS5019 Artificial Intelligence (Special Subject)

Credits:	20.0	Semester	2

Prerequisites: grade 13.5 in CS5011 and the consent of the Head of School

Anti-requisites: C5029 and CS5039

Programme(s): **Optional** module for Artificial Intelligence or Advanced Computer Science Taught Postgraduate Programmes.

Description: This module is a guided reading module on any aspect of Artificial Intelligence not covered by other available modules. It is intended only for MSc students in Artificial Intelligence, for whom it is particularly appropriate to deliver an individually designed programme of study in a specialist area of Artificial Intelligence not covered by other modules.

Class Hour: To be arranged.

Teaching: Tutorials and practical classes.

Assessment: Continuous Assessment = 100%

CS5021 Advanced Networks and Distributed Systems

Credits:	20.0	Semester	1

Programme(s): Compulsory module for Advanced Computer Science, Artificial Intelligence, Networks & Distributed Systems, and Software Engineering Taught Postgraduate Programmes.

Description: This module has two main themes: Networking and Distributed Systems. In the Networking theme it covers the networking protocol stack and related technologies, highlighting distributed systems issues such as concurrency and routing where appropriate. Topics include layered architectures; the protocol concepts; physical communication: wired and wireless; data link protocols; reliability; resource utilization; efficiency; LAN, MAN, WAN and PAN interfaces; Network tools: common commands and programming interfaces; security threats services and mechanisms. In the Distributed Systems theme, topics covered include: application level protocols: client-server; concurrency and causality; mutual exclusion; message passing; failure modes & recovery.

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 100%

CS5022 Distributed Systems Architecture

Credits:	20.0	Semester	2

Prerequisite: CS5021

Programme(s): **Optional** module for Advanced Computer Science, Artificial Intelligence, Networks & Distributed Systems and Software Engineering Taught Postgraduate Programmes.

Description: This module will cover Distributed System Case Studies; Transparency in Distributed Systems; Principles of Middleware; Examples of Object-Oriented Middleware e.g. CORBA, RMI, .NET; Service oriented computing; Web Services stack; Grid computing; Message-Oriented-Middleware; Frameworks e.g. J2EE, Containers, Inversion of Control; Reflection e.g. Dynamic Invocation, Interface Repositories; P@P and Overlay Technologies e.g. KBR, DOL, DHT: Chord, Pastry, Napster, Gnutella, bitTorrent; Persistence: Principles of Persistence, Data Storage Technologies, Data binding, Distributed file systems (CDA).

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 100%

CS5023 Mobile & Multimedia Systems

Credits: 20.0 Semester 2

Prerequisite: CS5021

Programme(s): **Optional** module for Advanced Computer Science, Artificial Intelligence, Networks & Distributed Systems and Software Engineering Taught Postgraduate Programmes.

Description: This module examines and analyses the way in which computing and communication are used to allow mobile systems to function across a heterogeneous environment, with variations in available network resources and diverse/intermittent network connectivity. Also, we examine and analyse the ways in which multimedia information is captured, processed, and rendered, to introduce multimedia quality of service (QoS) and to analyse the ways in which multimedia data is transmitted across networks. A key outcome of the module is for students to gain an appreciation for and to be able to critically assess the capabilities and constraints of mobile and multimedia systems. This will help to build a thorough understanding of working within today's fixed (wired) and wireless/mobile environments and technologies, with variable and often limited resources.

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 40%, Two-and-a-half Hour Examination = 60%

CS5029 Networks & Distributed Systems (Special Subject)

Credits: 20.0 Semester 2

Prerequisites: grade 13.5 in CS5021 and the consent of the Head of School

Anti-requisites: C5019 and CS5039

Programme(s): **Optional** module for Networks & Distributed Systems or Advanced Computer Science Taught Postgraduate Programmes.

Description: This module is a guided reading module on any aspect of Networks & Distributed Systems not covered by other available modules. It is intended only for MSc students in Networks & Distributed Systems, for whom it is particularly appropriate to deliver an individually designed programme of study in a specialist area of Networks & Distributed Systems not covered by other modules.

Class Hour: To be arranged.

Teaching: Tutorials and practical classes.

Assessment: Continuous Assessment = 100%

CS5031 Advanced Software Engineering

Credits: 20.0 Semester 1

Programme(s): Compulsory module for Advanced Computer Science, Artificial Intelligence, Networks and Distributed Systems, and Software Engineering Taught Postgraduate Programmes.

Description: This module will cover: Approaches to software reuse – System families, COTS, components, services. Reuse-oriented software processes. Understanding the environment where software will be installed. Construction by configuration – adapting and tailoring COTS to a specific environment. Component-based software engineering – principles and component models. Service-oriented architectures and the implementation of reusable web services.

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 100%

CS5032 Critical Systems Engineering

Credits: 20.0   Semester   2

Prerequisites: CS5031

Programme(s):   **Optional** module for Advanced Computer Science, Artificial Intelligence, Networks & Distributed Systems and Software Engineering Taught Postgraduate Programmes.

Description: The aim of this module is to provide students with an understanding of the concepts and development techniques used for critical, socio-technical systems. When students have completed this module they will: understand the notion of system dependability and the key characteristics of dependable systems; understand the specialised software engineering techniques that may be used to ensure dependable system operation; have practical experience of applying some of these techniques in systems specification, design or implementation.

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 100%

CS5033 Software Architecture

Credits: 20.0   Semester   2

Prerequisites: CS5031

Programme(s):   **Optional** module for Advanced Computer Science, Artificial Intelligence, Networks & Distributed Systems and Software Engineering Taught Postgraduate Programmes.

Description: The aim of this module is to introduce students to the concept of software architecture, as an aid to software design, reuse and evolution. When students have completed this course, they will: have knowledge of the key elements of software architectures; recognize architectural styles of existing software systems; describe the software architecture of a non-trivial system accurately; be able to construct systems that satisfy an architectural description; understand how software architecture aids design, reuse and evolution of software.

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 100%

CS5039 Software Engineering (Special Subject)

Credits: 20.0   Semester   2

Prerequisites: grade 13.5 in CS5031 and the consent of the Head of School

Anti-requisites: C5019 and CS5029

Programme(s):   **Optional** module for Software Engineering or Advanced Computer Science Taught Postgraduate Programmes.

Description: This module is a guided reading module on any aspect of Software Engineering not covered by other available modules. It is intended only for MSc students in Software Engineering, for whom it is particularly appropriate to deliver an individually designed programme of study in a specialist area of Software Engineering not covered by other modules.

Class Hour: To be arranged.

Teaching: Tutorials and practical classes.

Assessment: Continuous Assessment = 100%

CS5900 Research and Professional Skills in Computer Science

Credits: 20.0   Semester   2

Prerequisites: CS5011, CS5021 and CS5031

Programme(s):   Compulsory module for Advanced Computer Science, Artificial Intelligence, Networks and Distributed Systems, and Software Engineering Taught Postgraduate Programmes.

Description: Readings in research topics in Artificial Intelligence, Software Engineering and Networks and Distributed Computing. A team debate based on these readings. Seminars by staff and outside speakers on these topics. Presentations by students and essays based on these topics. Lectures, seminars and practical on generic research skills: framing research hypotheses, designing and conducting experiments, gathering evaluating and presenting data, using data to test hypotheses, poster preparation, project planning, paper publishing, networking, teamwork and career management. Lectures and student presentations on social and professional aspects of computing, e.g. history, social context, methods and analysis tools, ethics, risk analysis, privacy and civil liberties, computer crime, economics of computing and philosophical frameworks.

Class Hour: To be arranged.

Teaching: Lectures, seminars, tutorials and practical classes.

Assessment: Continuous Assessment = 100%

CS5999 Dissertation in Computer Science

Credits: 60.0   Semester   Summer

Prerequisites: Admission to dissertation phase of M.Sc.

Programme(s):   Compulsory module for Advanced Computer Science, Artificial Intelligence, Networks and Distributed Systems, and Software Engineering Taught MSc Postgraduate Programmes.

Description: 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.

Teaching: Weekly or fortnightly meetings with supervisor.

Assessment: Continuous Assessment = 100%

IS5101 Academic Project Planning

Credits: 5.0   Semester: Whole Year

Programme(s):   Compulsory module for M.Sc. in Management & Information Technology Programme.

Description: This module is designed to provide a streamlined progress path towards producing a personal academic project prior to carry out a major project and dissertation as part of a taught Masters programme. Students will be given the opportunity to submit and refine their plans in response to a series of lectures and workshops delivered over two semesters. Project management concepts and techniques will be introduced and reinforced by practical exercises using the capabilities of common software applications for planning. In addition generic skills will be covered which include research techniques, awareness of professional and ethical issues, document preparation, technical writing, evaluation and presentation.

Class Hour: To be arranged

Teaching: Combination of lectures, seminars and practical classes.

Assessment: Continuous Assessment = 100%

IS5102 Database Management Systems

Credits: 20.0   Semester: 1

Programme(s):   Compulsory module for M.Sc. in Management & Information Technology Programme.

Description: It is important for managers to understand what a database is, when to use a database, and what differentiates database from spreadsheets. This module covers: different types of databases including Microsoft Access and MySQL; the most appropriate database to choose depending upon the requirements of a project; database design including critical analysis of database information management systems. Database theory will also be covered including: Rational schemas, tuples, normalization, field types, queries and reports.Class Hour: To   be arranged

Teaching: One two-hour lecture and a one-hour seminar.

Assessment: Continuous Assessment = 100%

IS5103 Web Technologies

Credits: 20.0 Semester: 2

Programme(s): Compulsory module for M.Sc. in Management & Information Technology Programme.

Description: 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. It is important for managers to understand the different technologies that are used to develop web applications, not only to understand but to be able to discuss with web designers the needs of an organization when it comes to web sites. This module covers: Web accessibility, Cascading style sheets, and Web server technologies.

Class Hour: To be arranged

Teaching: One two-hour lecture and a one-hour seminar.

Assessment: Continuous Assessment = 100%

IS5104 Information Security Management

Credits: 20.0 Semester: TBA

Programme(s): Optional module for M.Sc. in Management & Information Technology Programme.

Description: 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 organizational, 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.

Class Hour: To be arranged

Teaching: One two-hour lecture and a one-hour seminar.

Assessment: Continuous Assessment = 100%

IS5105 IT Software Engineering Principles

Credits: 20.0 Semester: TBA

Programme(s): Optional module for M.Sc. in Management & Information Technology Programme.

Description: This module reviews and summarises the key concepts in large scale software development. Personnel and skills management in explored along with the human centric processes involved in appropriating system requirements, functionality and high level descriptions necessary to guide the development of and finally assess a working system. From the student's perspective, the module does not require prior programming knowledge as the skills set developed covers process, organisational and management issues. The module uses various learning styles and strategies, including self directed learning and presentational skills.

Class Hour: To be arranged

Teaching: One two-hour lecture and a one-hour seminar.

Assessment: Continuous Assessment = 100%

IS5106 Digital Media

Credits: 20.0 Semester: 2

Programme(s): Optional module for M.Sc. in Information Technology Programme.

Description: Effective communication of information increasingly relies on digital media technology as a means of production and or delivery. This practically orientated module considers a variety of solutions for printed materials and interactive or online presentations. Using industry standard software it looks at digital typography, image generation and manipulation, animation and illustration techniques and their application to create appropriate and effective communication media.

Class Hour: To be arranged

Teaching: Three lectures, a tutorial and a practical.

Assessment: Continuous Assessment = 100%

IS5107 Information Technology Fundamentals

Credits: 20.0 Semester: 2

Programme(s): Optional module for M.Sc. in Information Technology Programme.

Description: This module is an intensive practically oriented introduction to information technology, covering The Internet, Word Processing, Spreadsheets, Presentation Software, Networks & Systems, Peripherals and Computers in Society.

Class Hour: To be arranged

Teaching: Three lectures, a tutorial and a practical.

Assessment: Continuous Assessment = 100%

IS5109 Information Technology Project Planning

Credits: 20.0 Semester: 1

Programme(s): Compulsory module for M.Sc. in Information Technology Programme.

Description: This module is designed to provide a streamlined progress path towards producing a personal academic project plan prior to carrying out a major project and dissertation as part of a taught Master's programme. Students will be given the opportunity to submit and refine their plans in response to a series of lectures and workshops. Project management concepts and techniques will be introduced and reinforced by practical exercises using the capabilities of common software applications for planning. In addition generic skills will be covered which include research techniques, awareness of professional and ethical issues, document preparation, technical writing, evaluation and presentation.

Class Hour: To be arranged

Teaching: Two lectures and a seminar.

Assessment: Continuous Assessment = 100%

IS5198 Dissertation in Information Technology

Credits: 60.0 Semester: Summer

Prerequisite: Admission to dissertation phase of the M.Sc.

Programme(s): Compulsory module for M.Sc. Information Technology Programme.

Description: This module provides students with the opportunity to undertake an in-depth investigation into issues within the field of Information Technology. They are required to prepare a dissertation of not more than 15,000 words on an approved topic which shows appropriate competences in the field. Typically it comprises a related work 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. The project may be a team project but the dissertation will be an individual one.

Class Hour: To be arranged

Teaching: Personal Supervision

Assessment: Dissertation = 100%

IS5199 Dissertation in Management & IT

Credits:	60.0	Semester:	Summer

Prerequisite: Admission to dissertation phase of the M.Sc.

Anti-requisite: MN5599

Programme(s):   Component of M.Sc. in Management & Information Technology Programme, compulsory except where replaced by MN5599.

Description: This module provides students with the opportunity to undertake an in-depth investigation into issues within the fields of Management and Information Technologies. They are required to prepare a dissertation of not more than 15,000 words on an approved topic which shows appropriate competences in both fields, especially in IT. At least 25% of the work will involve IT and 25% will involve Management focus. Typically it comprises a related work 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. The project may be a team project but the dissertation will be an individual one.

Class Hour: To be arranged

Teaching: Personal Supervision

Assessment: Dissertation = 100%

MN5461 Strategic Management in the Information Age (was BS5501)

Credits:	20.0	Semester	2

Programme(s):   Compulsory module for the M.Sc. in Management & Information Technology Programme.

Description: 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.

Class Hour: To be arranged.

Teaching: One two-hour lecture and a one hour seminar.

Assessment: Continuous Assessment = 50%, Two Hour Examination = 50%

MN5470 Managing Human Resources (was BS5015)

Credits:	20.0	Semester:	1

Anti-requisite: BS5015

Programme(s):   **Compulsory** module for Management & Information Technology Taught Postgraduate Programme

Description: 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.

Class Hour: To be arranged.

Teaching: Lectures and seminars.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

MN5553 E-Business (was BS5120)

Credits: 20.0 Semester: 1

Anti-requisite: BS5120

Programme(s): Optional module for the M.Sc. in Management & Information Technology Programme.

Description: This module examines different models and perspectives for e-business related strategies and actions in order to develop effective deployment strategies for the 'new' technologies. Whilst attention is often exclusively focused on the main issues surrounding buying and selling over the Internet this module also acknowledges the fact that there are many issues for strategy and action across the whole supply chain. As such, online buying and selling practice as well as the activities of servicing customers (pre and post-sale), collaborating with partners and transacting inside the organisation are evaluated. Finally, as all of these activities are conducted via applications that are enabled by an infrastructure the module also provides an overview of some key infrastructure elements.

Class Hour: To be arranged.

Teaching: Lectures and seminars.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

MN5556 Consumption, Markets and Culture (was BS5130)

Credits: 20.0 Semester: 1

Anti-requisite: BS5130

Programme(s): Optional module for the M.Sc. in Management & Information Technology Programme.

Description: The module charts the historical development of consumer societies and explores the benefits, problems and challenges which these present for policy makers and for consumers. The module aims to be theoretically challenging in stimulating discussion about topics such as the changing perceptions of space and time; power; exchange needs and values; semiotics and consumer identity from different theoretical perspectives.

Class Hour: To be arranged.

Teaching: Lectures and seminars.

Assessment: Continuous Assessment = 50%, 2 Hour Examination = 50%

MN5599 Dissertation in Management & IT (was BS5599)

Credits: 60.0 Semester: Summer

Anti-requisite: IS5199

Programme(s): Component of M.Sc. in Management & Information Technology Programme, compulsory except where replaced by IS5199

Description: This module provides students with the opportunity to undertake an in-depth investigation into issues within the fields of Management and Information Technologies. They are required to prepare a dissertation of not more than 15,000 words on an approved topic which shows appropriate competences in both fields. At least 25% of the work will involve IT and 25% will involve Management focus, Typically it comprises a related work 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. Team work on dissertation is permitted (up to five students).

Class Hour: To be arranged

Teaching: Personal Supervision

Assessment: Dissertation = 100%