**COMP 7420   Decision Analysis and Support in   (3,2,1) (E)
Healthcare Systems**
Prerequisite: Postgraduate student standing
In this course, students will learn the advanced techniques and methodology of health information management, and the models and algorithms used in computer-based public health and clinical decision making. They will also learn the related architectural design, structure, functions and components of decision support systems.

**COMP 7430   Health Information Systems: (3,3,0) (E)
Architecture and Technologies**
Prerequisite: Postgraduate student standing
This course provides a comprehensive study of the key architectural principles, open standards and development technologies behind healthcare information systems. At the same time, it introduces the present state of the art as well as the future trends in the development of electronic health record systems, and discusses several core technical issues in acquiring, integrating, analyzing and utilizing healthcare data.

COMP 7440   Web-based and Ubiquitous Health Care (3,2,1)
Prerequisite: Postgraduate student standing
This course covers the healthcare systems applicable to Web, social media, and ubiquitous environment. It will explain to students how the healthcare system can monitor patients and elderly as they maintain their normal everyday activities, through body sensors and home environment sensors. It will further introduce how the data are collected to make trend analysis, determine state of well-being and warn health workers of potential problems.

**COMP 7450   User Interface Design and   (3,2,1)
Usability Testing**
Prerequisite: Postgraduate student standing
This course provides an introduction to and overview of user interface design and usability testing. It integrates theories and methodologies from computer science, cognitive psychology, design, and many other areas. Issues include: command languages, menus, forms, and direct manipulation, graphical user interfaces, computer supported cooperative work, information search and visualization, World Wide Web design, input/output devices, and display design.

**COMP 7460   MSc Practicum for Information   (3,*,*) (E)
Systems**
Prerequisite: Postgraduate student standing
Students work on group or individual system development projects. Each project is supervised by an academic staff, and it may be co-supervised by practising professionals. The project demands careful planning and creative application of underlying theories and enabling technologies. Students can select project in consultation with their project supervisors. A written report and an oral presentation are required upon successful completion of the project. Each project will be assessed by the supervisor(s) and one additional academic staff on four aspects: (1) project management and progress, (2) methodologies and results, (3) report writing, and (4) oral presentation. Through these projects, students will develop (1) mastery of integrating concepts with practice in information systems, (2) creative and systematic problem solving skills for analysing, designing, and implementing information systems, and (3) report writing and presentation skills for effective communication in IT enterprises.

COMP 7470   Health Information Privacy   (3,3,0)
This course introduces health information privacy from legal, ethical, technical and economic aspects. Students will learn conceptions and legal foundations of health information privacy, security primitives, different privacy models, different anonymization algorithms, privacy technologies for biometrics, and privacy solutions for extended health data sharing scenarios. Students will also learn the economics of health information privacy. This course provides opportunities to explore cutting-edge privacy solutions in the context of health information and apply privacy technologies to real-life applications.

**COMP 7510   Foundations of Information   (3,3,0) (E)
Technology**
This course introduces the basic structures and operations of the computer systems. Various components of operating systems are studied in detail. Basic concepts of data networks and LANs with respect to the OSI and TCP/IP models are examined. Students who complete this course will be suitably prepared for the other courses offered in the MSc in IT Management curriculum.

**COMP 7520   Foundations of Management in the (3,3,0) (E)
IT Context**
The course overviews the concepts in different business management disciplines so as to provide a foundation for students in managing IT projects and organizations.

COMP 7530   IT Forum   (1,1,0) (E)
Students are exposed to the current IT practices through seminars given by IT professionals and academic staff, interacting in small groups with IT practitioners, and/or company visits. After completing this course, students will understand the current IT practice.

**COMP 7540   IT Management: Principles and   (3,2,1) (E)
Practice**
This course deals with the management of information systems and technology as it is being practised in organizations today to produce value for businesses and consumers.

COMP 7550   IT Project Management   (3,3,0) (E)
This course deals with project management and addresses issues in information technology project development. On completion of the course, students should (1) have acquired basic skills for project managers, (2) be able to develop and prepare project plans for effective resource utilization, and (3) be able to manage IT development projects.

COMP 7560   Information Systems Auditing   (3,3,0) (E)
This course is to give students a thorough grounding in the theory, techniques and practical issues involved in computer-based information systems auditing. The students will have an in-depth understanding of auditing concepts and methods after taking this course.

COMP 7570   IT Laws and Ethics   (3,3,0) (E)
This course examines legal and ethical issues in the use of information technology. On completion of the course, students should (1) understand intellectual property rights issues, (2) understand the legal obligations of a computer professional, (3) understand the importance of professional codes of conduct, and (4) be able to derive and justify a personal position on moral and ethical matters related to computers in society.

COMP 7580   Electronic Transformation in Business (3,3,0)
This course covers the use of technology in many aspects of a business, with particular emphasis on concepts and practices for modeling, specifying and integrating within-enterprise and B2B business processes. How the business process related to customer relationship management, enterprise resource planning, supply chain management, etc. could be transformed in the Internet era will be covered. Some case studies related to e-transformation in Business will also be discussed. Students after taking this course should be able to (1) understand how e-technologies can facilitate process/application integration with and across enterprise, and (2) evaluate the cost and benefit that e-transformation can bring to different business processes of an enterprise.

**COMP 7590   Information Management Systems (3,2,1) (E)
Development**
To extend the student's knowledge of information management systems and development methodology through the study of advanced theories and methodologies, and to examine the critical issues of current information systems (IS) research, so as to provide a student an integrative perspective of information management systems and development.