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) (E)
Prerequisite: Postgraduate student standing
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 7480   Programming for Web and Mobile (3,2,1) (E)
Information Systems
Prerequisite: Postgraduate student standing
This course aims at providing students with the opportunities to improve their understanding of the web and mobile information system developments. Through this course, students will learn: (1) how to install, manage and maintain the information systems, (2) the web programming and the database techniques, as well as hands-on experience, for developing web information systems, and (3) how to extend the information systems to mobile platforms.

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 privacy, intellectual property rights, contracts and licenses as well as common criminal issues, (2) understand the legal obligations of a computer professional, (3) understand computer ethics and 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   (3,3,0) (E)
Business
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.

COMP 7630   Web Intelligence and Its   (3,3,0) (E)
Applications
This course introduces the fundamental concepts as well as practical applications of Web Intelligence (WI) which combines contemporary Artificial Intelligence and advanced Information Technology in the context of Web-empowered systems, environments, and activities. Also, advanced topics related to Web Intelligence (WI) and their impact to different sectors of the society will be covered. After taking this course, students should be able to (1) identify the possible impact of Web Intelligence in the society, and (2) apply WI related techniques to advance existing Web-based systems and on-line business platforms.

COMP 7640   Database Systems and   (3,3,0) (E)
Administration
This course is to provide an in-depth knowledge of relational database management systems (RDBMS). Topics include: conceptual modeling of a database, relational data model, relational algebra, database language SQL, relational database design, data storage, index structures, query evaluation, transaction processing, concurrency control, and crash recovery. In addition, advanced topics such as distributed databases and data warehouses will also be covered. The students will have a thorough understanding of RDBMS after taking this course.

COMP 7650   Data Mining and Knowledge   (3,2,1) (E)
Discovery
Prerequisite: Basic knowledge in probability and statistics, basic
        database concepts
This course aims to introduce fundamental issues of knowledge discovery and the common data mining techniques including statistical methods and machine learning methods. Furthermore, their potential applications to a variety of areas such as business, finance, medicine, and so forth, are shown via some case studies.

COMP 7680   Internet and World Wide Web   (3,3,0) (E)
Students will learn the principles of the Internet and the World Wide Web and study some advanced/current topics. After

completing this course, students will understand the principles of the Internet and the World Wide Web and be able to develop and manage Internet systems.

COMP 7700   E-Technology Architectures, Tools   (3,2,1)
                 and Applications
This course will develop students' understanding of recent developments in e-technologies, including XML, Web services, service-oriented architecture, Web-enabled business processes, as well as related architectures, tools, and applications. It will also enable students to acquire the capability to design and develop software systems based on e-technologies and to apply them to some domain applications.

COMP 7730   MSc Project   (3,*,*)
Pre/co-requisite: Either COMP 7920 Project Skills in IT Management or COMP 7950 IT Project Skills
Students work on the projects proposed by themselves. Each project is supervised by an academic staff, and it may be co-supervised by practicing professionals. After completing the projects, students will submit written reports and present their results (e.g. new methodologies, IT systems, or critical surveys). 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 IT Management, (2) creative and systematic problem solving skills for designing, analysing, managing or developing IT systems, (3) self-learning capability for sustainable self-development in the rapidly changing IT field, and (4) report writing and presentation skills for effective communication in IT enterprises.

COMP 7740   Supplementary Programming   (0,*,*) (E)
This course provides students with basic knowledge of computer-oriented problem solving methodologies, algorithm development, structured programming concepts and design techniques, and implementation tools that facilitate debugging and testing. In particular, structured programming skills will be illustrated with a contemporary programming language. This course is open to MSc in Information Technology Management students with inadequate programming background.

COMP 7750   Information and Knowledge   (3,3,0) (E)
                 Management
This course introduces the basic principles and technologies of information and knowledge management. Information storage and retrieval systems, knowledge management solutions, and knowledge management systems will be covered. Students will be able to understand the impacts of information and knowledge management in business and organization. They will be able to utilize information and knowledge management to maximize productivity.

COMP 7760   Special Topics in Business Analytics (3,3,0) (E)
Prerequisite: The pre-requisite depends on the specific topics covered. The pre-requisite and the chosen topics will be announced before the semester starts.
Students will learn state-of-the-art topics in business analytics. Emphasis will be placed on the current issues, methodologies and/ or practice. After completing this course, students will understand some current topics in and methodologies of business analytics.

COMP 7770   Special Topics in IT Management   (3,3,0)
Prerequisite: The pre-requisite depends on the specific topics covered. The pre-requisite and the chosen topics will be announced before the semester starts.
Students will learn state-of-the-art topics in IT management. Emphasis will be placed on the current issues, methodologies and/ or practice. After completing this course, students will understand some current topics in and methodologies of IT management.

COMP 7780   Special Topics in Knowledge and   (3,3,0) (E)
                 Information Management
Prerequisite: The pre-requisite depends on the specific topics covered. The pre-requisite and the chosen topics will be announced before the semester starts.
Students will learn state-of-the-art topics in knowledge and information management. Emphasis will be placed on the current issues, methodologies and/or practice. After completing this course, students will understand some current topics in and methodologies of knowledge and information management.

COMP 7790   Special Topics in Internet and Web (3,3,0) (E)
                 Technologies
Prerequisite: The pre-requisite depends on the specific topics covered. The pre-requisite and the chosen topics will be announced before the semester starts.
Students will learn state-of-the-art topics in Internet and Web technologies. Emphasis will be placed on the current issues, methodologies and/or practice. After completing this course, students will understand some current topics in and methodologies of Internet and Web systems.

COMP 7800   Analytic Models in Information   (3,2,1) (E)
                 Technology Management
This course aims to introduce different analytic models used in the management of information technology. These include practical applications of quantitative analysis techniques in business decision making, process modeling, planning and evaluation. The course focuses on the ability to recognize the appropriate models applicable to diverse information technology management situation, and to identify solutions to them. Emphasis will be placed on problem formulation and solution application rather than mathematical derivations.

COMP 7810   Business Intelligence   (3,2,1) (E)
Students will learn the methodologies and concepts of business intelligence, including the characteristics, architectures, and development of data warehouses and data marts. After completing the course, the students will understand the features and applications of Online Analytic Processing (OLAP), and identify the different types of OLAP. Emphasis will be placed on the understanding of enabling technologies and their applications to improve operations and decision making in business and healthcare contexts.

COMP 7820   Decision Analysis and Support   (3,2,1) (E)
To provide a study of decision analysis and support processes and relevant tools that provide support to such processes. Students will learn the challenges and techniques of decision making in an environment of imperfect and changing information. Both the qualitative and the quantitative aspects of decision analysis and support will be covered.

COMP 7830   Health Informatics   (3,3,0)
In this course, students will learn the following: (1) structures, operations and workflow in healthcare organizations, (2) data and data standards in the healthcare industry, (3) information technology in healthcare, and (4) health information systems.

COMP 7840   Management of Medical Visual Data   (3,2,1)
In this course, students will learn (1) some fundamental image processing techniques, (2) the characteristics of different types of medical images, (3) the structure and components of visual information management systems, and (4) the architecture and application of picture archiving and communication systems.

COMP 7850   Information Security Management (3,2,1) (E)
This course studies the principles of information security management. The course content is compatible with current industrial standard in information security (e.g. CISSP certification). The students will also learn the current topics and issues in information security management. On completion of the course, students should be able to (1) understand the principles