

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 Information Systems (3,2,1) (E)

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 Technology (3,3,0) (E)

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 IT Context (3,3,0) (E)

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 Practice (3,2,1) (E)

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 Business (3,3,0) (E)

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 Development (3,2,1) (E)

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 Applications (3,3,0) (E)

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 Administration (3,3,0) (E)

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 Discovery (3,2,1) (E)

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