

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 and Applications (3,2,1)**

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 Management (3,3,0) (E)**

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 Information Management (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 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 Technologies (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 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 Technology Management (3,2,1) (E)**

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

of information security management, (2) acquire the knowledge equivalent to current industrial standard in information security (e.g. CISSP certification), and (3) identify practical information security principles and guidelines with the consideration of legal and privacy issues.

**COMP 7870 IT Innovation Management and Entrepreneurship (3,3,0) (E)**

The development of information technology and innovations plays an increasingly important role in enhancing the competitiveness of countries, organizations, and individuals. This course prepares students for the technology and information economy by providing the knowledge and skills necessary for innovation management and entrepreneurship. With particular emphasis on information technology-related activities, this course aims to (1) introduce students to the fundamental concepts, practices, opportunities, and challenges related to innovation management and entrepreneurship, (2) provide students with frameworks and tools for the successful management of innovation from idea generation to market exploitation, and (3) stimulate students' interest in entrepreneurship and thus cultivating an entrepreneurial spirit.

**COMP 7880 E-Business Strategies (3,3,0) (E)**

E-business offers real and abundant opportunities for small, medium and large companies throughout the world. However, success in e-business rarely happens without strategy. This course exposes students to contemporary management thinking, methods, and strategies necessary to effectively build and manage e-business systems. This course aims to; (1) introduce students to the fundamental concepts and approaches of strategic management, (2) provide students with a comprehensive framework for understanding the business models and strategies for e-business, and (3) prepare students to be active participants in formulating and implementing e-business strategies for organizations.

**COMP 7930 Big Data Analytics (3,2,1) (E)**

Prerequisite: Basic knowledge in probability and statistics, basic database concepts

This course aims to introduce the basic knowledge of big data analytics as well as the common data analytics techniques and tools. Furthermore, their potential applications to a variety of domains such as business and health care are shown via case studies.

**COMP 7940 Cloud Computing (3,2,1) (E)**

This course provides comprehensive and in-depth knowledge of cloud computing concepts and technologies. Topics include cloud computing models, cloud-enabling technology, cloud computing mechanisms, cloud computing architectures, and real-world considerations of working with clouds.

**COMP 7950 IT Project Skills (1,\*,\*) (E)**

Student will learn and master information searching skills and writing skills and presentation skills for undertaking IT projects.

**COMP 7960 MSc Research I (3,\*,\*) (E)**

Pre/Co-requisite: Either COMP 7920 Project Skills in IT Management or COMP 7950 IT Project Skills

Each student is required to work on an academic research project independently under the supervision of an academic staff. After completing the research projects, students will submit written research papers and present their research results. Each project will be assessed by the supervisor and one observer on four aspects: (i) project management and progress, (ii) methodologies and results, (iii) paper writing, and (iv) oral presentation. Through these research projects, students will learn and practise how to identify research problems, conduct literature reviews, criticize and analyze existing solutions, propose and evaluate new solutions, write and present research papers.

**COMP 7970 MSc Research II (3,\*,\*) (E)**

Prerequisite: COMP 7960 MSc Research I with grade B+ or above

Each student is required to work on an academic research project independently under the supervision of an academic staff. After completing the research projects, students will submit written research papers and present their research results. Each project will be assessed by the supervisor and one observer on four aspects: (i) project management and progress, (ii) methodologies and results, (iii) paper writing, and (iv) oral presentation. Through these research projects, students will practise how to carry out independent research, propose and evaluate new solutions, write and present research papers.

**COMP 7980 Dynamic Web and Mobile Programming (3,2,1) (E)**

Prerequisite: Basic knowledge on database and computer programming

This course aims to cover key concepts, technologies and skills on server-side and client-side Web and mobile programming, including HTML, CSS, JavaScript, basic server-side scripting language, database connectivity and session management. Through this course, students will learn how to develop Web and mobile applications with dynamic and interactive contents.

**CRWG 3005 Creative Writing for New Media I (3,3,0) (C)**

This course is aimed to train students with the practical skills for writing scripts, especially for E-books, E-magazine, mobile phone films/video and digital radio broadcasting creatively. The general principle in creative writing for new media will be introduced from week 1 to 5. The second part will focus on writing scripts for mobile phone film/video, and digital radio broadcasting. A new way of interactive storytelling, creative mindset and grammar are highly emphasized.

**CRWG 3015 Television Writing Workshop I (3,3,0) (C)**

This course will train students in professional scriptwriting for different TV programmes like Talk Show, Late Night Show, Reality TV, Children's Programme and TV News Magazine Show with Sit-com as the main focus. At the end of the course students will be able to write Sit-com scripts.

**CRWG 3016 Television Writing Workshop II (3,3,0) (C)**

This course will train students in professional scriptwriting for TV drama series and Made-for-TV movies. At the end of the course students will be able to write scripts for TV dramas.

**CRWG 3025 Screenwriting Workshop I (3,3,0) (C)**

This course introduces students to the craft of screenwriting, establishing a foundation for all future writing. Screenplay formatting will be a major focus, and students will learn how to write scene description, to describe characters and locations, and to develop dramatic conflict, climax, romance and humor. The course will also include script-to-screen action sequences, script-to-screen analysis, comparing well-known films to their original screenplays.

**CRWG 3026 Screenwriting Workshop II (3,3,0) (C)**

This course introduces students to the craft of screenwriting, establishing a foundation for all future writing. Screenplay formatting will be a major focus, and students will learn how to write characters' dialogue, monologue, voice-over, dramatic structure and the ways of storytelling narrative. The course will also include script-to-screen action sequences as well as script-to-screen analysis, comparing well-known films to their original screenplays. This course is a continuation of Screenwriting Workshop I.

**CRWG 3035 Cinematic Storytelling (3,3,0) (C)**

This course is aimed to train students with the cinematic storytelling techniques aside from dialogues and voice over, etc.