

advantage. In particular, it discusses various managerial issues in relation to strategic planning for management information systems.

ISEM 4025 Information Systems Auditing (3,3,0) (tbc)

Prerequisite: ISEM 3005 Business Systems Analysis and Design
The headline-grabbing financial scandals of recent years have led to a great urgency regarding organizational governance and security. Information Technology (IT) is the engine that runs modern organizations. As such, IT must be well-managed and controlled. Organizations and individuals are dependent on network environment technologies, increasing the importance of security and privacy. This course provide students with the knowledge necessary to provide information systems (IS) audit service in accordance with IS audit standards, guidelines and best practices to ensure that an organization's information technology and business systems are protected and controlled.

ISEM 4026 Information Technology Governance and Management (3,3,0) (tbc)

Prerequisite: ISEM 2005 Management Information Systems
Information technology (IT) Governance is a relatively new subset of corporate governance that focuses on the management and assessment of strategic IT resources. Key objectives of IT governance and management is to support efficient operations, enterprise integration, and seamless value delivery, to reduce risk and ensure that investments in IT resources add value to corporation. This course will provide guidance for students to understand the models and practices of frameworks such as CobiT, Val-IT and balanced scorecard. Selected case studies will be used to illustrate how the concepts and frameworks are applied in real life companies.

ISEM 7030 Current Issues in Electronic Commerce (2,3,0)

This course aims to explore the contemporary issues and current development in relation to e-commerce and e-business. In particular, it examines the impact of e-commerce on different business areas and discusses how to effectively utilize e-commerce to achieve competitive advantages in different market environments.

ISEM 7040 Managing Information Systems (2,3,0)

Information technology (IT) and information systems (IS) play a crucial role in shaping and enabling business strategies. The advance of Internet applications and complex organizational information systems has provided ample opportunities for organizations to redesign their business processes to face the highly competitive markets. This course discusses how firms can use IS/IT effectively in the new networked economy.

ISEM 7210 Business Processes and Information Management (3,3,0)

The transformation of business caused by e-business and e-commerce applications of the Internet and related technologies demonstrates that information systems and information technology are essential ingredients for business survival and success. The goal of this course is to help the business professionals in the accounting and financial areas to understand how to use and manage information technologies and use them to revitalize business processes, conduct e-commerce, improving business process decision making, and to gain competitive advantages.

ISEM 7710 Seminar in Management Information Systems (3,3,0)

The aim of this course is to help students to understand the current development in various IS areas and become familiar with the main research streams. The course also aims at helping the student to understand the process of academic research, from idea generation to writing the research proposal.

ISEM 7720 Advanced Management Information Systems (3,3,0)

This course deals with the management of information technology as it is being practised in organizations today. The course will firstly discuss the managerial issues encountered in daily operations of information systems, and then will deal with the functional issues of information systems involved in running a modern organization.

ISEM 7730 Required Readings in Information Systems and e-Business Management (3,3,0)

This course aims to (1) provide a tailor-made and guided reading program for research postgraduate students in specific area(s) of concentration, and (2) induce students to acquire in-depth understanding of their specific research field in the discipline of information systems and e-Business management. The supervisor and the student are required to work out a reading list to cover literature supplementary to the student's research area. The approved list will be submitted to the Department for record.

ISEM 7740 Required Readings in Operations Management Research (3,3,0)

This course aims to (1) provide a tailor-made and guided reading program for research postgraduate students in operations and supply chain management areas, and (2) induce students to acquire in-depth understanding of their specific research fields in the discipline of operations management. The supervisor and the student will work out a reading list to cover literature enrichment to students' research areas. The approved list will be submitted to the Department for record.

I.T. 1120 Business Information Systems (3,2,1) (E)

This course is designed for the leaders of tomorrow. Its special aim is to prepare students for the challenges of tomorrow's workplace by equipping them with practical knowledge and skills to engage in fast-moving information technology (IT). Its main thrust is the incorporation of essential as well as tailor-made, forward-looking IT concepts illustrated with real-world examples and coupled with hands-on experiences in the support of the information management cycle. In addition, applications of information systems (IS) in different business areas and the IS development cycle are introduced.

I.T. 1180 Information Management Technology (3,2,1) (E)

This course is designed for the leaders of tomorrow. Its special aim is to prepare students for the challenges of tomorrow's workplace by equipping them with practical knowledge and skills to engage in fast-moving information technology (IT). Its main thrust is the incorporation of essential as well as tailor-made, forward-looking IT concepts illustrated with real-world examples and coupled with hands-on experiences in the support of the information management cycle.

I.T. 1510 World Wide Web Applications Development (3,2,2) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

This course aims at introducing the fast growing World Wide Web together with the methodologies and techniques for developing applications on the web. Students of this course are expected to be competent computer users. On completion of the course, they will understand the fundamental concepts of World Wide Web and how it can be used as an effective communication channel. They will also be capable of developing well-structured websites for corporations and organizations.

I.T. 1530 Database Management (3,2,1) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

This course introduces how to represent the data in a database for a given application and how to manage and use a database

management system. Topics include conceptual modelling of a database, relational data model, relational algebra, database language SQL and relation database design. In addition, hands-on DBMS experience is included. Students who have received credits for I.T. 1530 are not allowed to take COMP 1160, or vice versa.

I.T. 1540 Programming Fundamentals and Problem Solving (3,2,1) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

This course introduces the methodology of problem formulation and specification, program design, and implementation skills including debugging and testing. The course is taught through a high-level structured programming language. This course is not available to Computing Studies, Computer Science and Physics major with Computer Science concentration.

I.T. 1570 IT and the Business World (3,2,1) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

This elective course aims to provide students with an understanding of the relationship between information technology (IT) and business. In particular, the relationship between IT and business successes will be investigated. On completion of this course, students will be able to determine the appropriate IT for the successes of different types of business.

I.T. 1580 You and the Internet (3,2,1) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

This course introduces how the Internet enhances our daily life, increases work efficiency and creates business opportunities to non-IT major students. Students will also learn how to protect their personal privacy, personal computers, and home networks in the Internet, and learn the fundamental principles of mobile and wireless networks.

I.T. 1590 Searching and Managing Information (3,2,1) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

This course provides a comprehensive examination of different popular search systems such as Google and YouTube. Students will be introduced to the powerful features in these systems, as well as the technology underpinning them. Students will learn how large information repositories are efficiently organized, managed and searched. They will also learn the principles of search engines, information retrieval, and how to use simple database management systems such as Access.

I.T. 2460 Managing Information Systems in the Digital World (3,3,0) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

The course deals with the management of information systems and technology as it is being practised in organizations today to create value for businesses and consumers.

I.T. 2510 Music, Photo and Movie Processing (3,2,2) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

After completion of this course, students will have a good understanding on the basic concepts of music, photo and movie processing. Students will also be able to use software tools to process music, photo and movie data such as music file compression/conversion, photo enhancement and movie editing. This course is open to non-Visual Arts and non-CS Majors only.

I.T. 2530 Internet and E-Commerce (3,2,1) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

Students will learn the basic concepts of Internet and e-commerce technologies, and gain hands-on experience in setting up systems for Internet and e-commerce applications.

I.T. 2550 Fundamentals of Multimedia (3,2,2) (E)

Prerequisite: I.T. 1180 Information Management Technology

On completion of this course, students will have a good understanding on the basic concepts of the fundamental elements in multimedia. Students will also be able to use software tools to process image, video and audio data such as image enhancement, video editing and audio file compression/conversion, and develop multimedia projects.

I.T. 2560 Building Interactive and Attractive Web Graphics (3,2,2) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

This course aims at introducing the theories and techniques for developing interactive and attractive graphics on the Web. On completion of the course, students will understand concepts behind Web interactive graphics. They will also be capable of developing such interactive graphics for effective communication and entertainment.

I.T. 2710 Enterprise Application Systems (3,3,0) (E)

Prerequisite: I.T. 1120 Business Information Systems or I.T. 1180 Information Management Technology

This course introduces how information technology is used in many aspects of a business, with particular emphasis on concepts and practices for modelling, specifying and integrating within-enterprise and B2B business processes for customer relationship management, enterprise resource planning, and supply chain management.

ITAL 1005 Italian I (3,3,0) (E/I)

This course aims to teach complete beginners basic Italian in listening, speaking, reading and writing. Students will also be introduced to the culture of Italy. Vocabulary and grammar will be presented in a communicative way for a variety of situations such as greeting people, making introductions, and talking about one's family, free time, hobbies and daily routines.

ITAL 1006 Italian II (3,3,0) (E/I)

Prerequisite: ITAL 1005 Italian I or equivalent

This course aims to build further on the beginner's level work and widen the scope of exposure to more complex aspects of the Italian language and its culture. Participants are expected to consolidate and continue to develop their proficiency in the Italian language and to further develop their production and reception skills in more complex daily situations.

ITAL 1010 Italian I (3,3,0) (E/I)

This course aims to teach complete beginners basic Italian in listening, speaking, reading and writing. Students will also be introduced to the culture of Italy. Vocabulary and grammar will be presented in a communicative way for a variety of situations such as greeting people, making introductions, and talking about one's family, free time, hobbies and daily routines.

ITAL 1020 Italian II (3,3,0) (E/I)

Prerequisite: ITAL 1010 Italian I or equivalent

This course aims to build further on the beginner's level work and widen the scope of exposure to more complex aspects of the Italian language and its culture. Participants are expected to consolidate and continue to develop their proficiency in the Italian language and to further develop their production and reception skills in more complex daily situations.