

organizational view of how to use information technology to obtain organizational efficiencies, increase individual effectiveness, gain competitive advantages, manage global organizations, and provide useful products and services to customers. Topic covered include organizational foundations of information systems, strategic use of information systems, development of information systems, and social and ethical issues involved with information systems.

ISEM 2600 Data Management in Business (3,3,0) (E)

Prerequisite: ISEM 2450 Management Information Systems

This course aims to introduce students with different types of database management systems (DBMS), the principal and process of developing database applications using structured query language (SQL) in business operations, as well as the management of database environments. The course focuses on the fundamentals of data management in organizations, and establishment of concepts and implementation methods for DBMS applications.

ISEM 3005 Business Systems Analysis and Design (3,3,0) (E)

Prerequisite: ISEM 3006 Data Management in Business

This course provides students with techniques of business systems analysis and design. The course covers all the phases of the systems development life cycle: Initiation, Analysis, Design, Development, and Implement. Emphasis is placed on concepts and techniques required in analysing information systems and their logical design, as well as the application of those concepts and techniques in various phases of the life cycle.

ISEM 3006 Data Management in Business (3,3,0) (E)

Prerequisite: ISEM 2005 Management Information Systems

This course aims to introduce students with different types of database management systems (DBMS), the principal and process of developing database applications using structured query language (SQL) in business operations, as well as the management of database environments. The course focuses on the fundamentals of data management in organizations, and establishment of concepts and implementation methods for DBMS applications.

ISEM 3007 e-Marketing (3,3,0)

Prerequisite: ISEM 2005 Management Information Systems

This course provides students with an understanding of the marketing principles and practices of e-Marketing. The course emphasizes the role of electronic technology in implementing marketing strategies. Topics include e-marketing opportunities, Internet fundamentals and data tools for customer analysis, e-marketing strategies, e-marketing management, and e-marketing action plans.

Learning in this course will be accomplished through lectures, case studies, in-class exercises, group project and presentations, and research papers.

ISEM 3010 Business Systems Analysis and Design (3,3,0) (E)

Prerequisite: ISEM 2600 Data Management in Business

This course provides students with techniques of business systems analysis and design. The course covers all the phases of the systems development life cycle: initiation, analysis, design, development, and implement. Emphasis is placed on concepts and techniques required in analysing information systems and their logical design, as well as the application of those concepts and techniques in various phases of the life cycle.

ISEM 3015 Telecommunications and Networking in Business (3,3,0)

Prerequisite: ISEM 2005 Management Information Systems

This course presents the general principles and components of telecommunications and automation systems in business. Later, emphasis is placed on applications and management strategies behind network management and operations within a telecommunications environment.

ISEM 3016 Decision Support and Intelligent Systems in Business (3,3,0)

Prerequisite: ISEM 2005 Management Information Systems

This course aims to study the basic concepts of decision making, data collection, heuristic, and analytical models. Students subsequently learn how to combine these elements to construct a DSS/expert system to assist decision making at the executive level and solve unstructured problems. In addition, new dimensions of intelligent systems such as neural computing and data mining are also studied.

ISEM 3017 Multimedia and Automated Systems in Business (3,3,0)

Prerequisite: ISEM 2005 Management Information Systems

This course is divided into two main components. In the first component, students will learn how to use one or more common multimedia software packages that incorporate various files types (such as sound, animation, and video). The objective is to give hands-on experience to students of using these multimedia software packages. In the second component, students will learn some contemporary planning, production, and management issues of multimedia systems.

ISEM 3020 IT Governance, Audit and Control (3,3,0) (E)

Prerequisite: ISEM 2450 Management Information Systems

The headline-grabbing financial scandals of recent years have led to a great urgency regarding organizational governance and security. Information technology 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 important of security and privacy. This course is aligned to the COBIT control objectives, it provides a fundamental understanding of IT governance, controls, auditing applications, systems development, and operations.

ISEM 3120 Seminar in Information Systems and e-Business Management (3,3,0) (E)

Prerequisite: ISEM 2450 Management Information Systems

This is a seminar-type of course which mainly emphasizes the introduction and discussions on the new topics in IS and related fields. It aims to equip students with both research literature and practical oriented themes for enhancing the abilities of conducting research, appreciating and understanding of current information systems knowledge, and group-working towards individual competency and success.

ISEM 3130 e-Marketing (3,3,0) (E)

Prerequisite: ISEM 2450 Management Information Systems

This course provides students with an understanding of the marketing principles and practices of e-Marketing. The course emphasizes the role of electronic technology, including social media, in implementing marketing strategies. Topics include foundations of e-Marketing and social media, online advertising, affiliate marketing, search engine marketing, search engine optimization, viral marketing, online reputation management, Web PR, website optimization and web analytics, social media marketing, mobile marketing, and e-Marketing plan and strategies. Learning in this course will be accomplished through lectures, case studies, in-class exercises, group project and presentations, and research papers.

ISEM 3140 Web Site Design and Business Applications (3,3,0) (E)

Prerequisite: I.T. 1120 Business Information Systems or equivalent

The course aims to introduce the concepts and techniques for developing a transaction-based Web site using contemporary tools in order to market the products and services of organization.