

## Course Description for the Department of Management Information Systems

### 58101 Management Information Systems {3} [3-3]

Basic IS concepts; Information Systems and Organizations; Systems from a functional Perspective; Database; Telecommunications and Networks; Information Security; Ethical and Social Responsibility.

***Prerequisite: None***

### 51333 Knowledge Management {3} [3-3]

The notion of knowledge management; importance and the methods by which knowledge can be managed in organizations; importance of the role of information systems for knowledge management.

***Prerequisite 58101 Management Information Systems***

### 58102 Introduction to IT {3} [3-3]

Basic concepts and terminologies of information technology; numbering systems; operating systems; multimedia concepts; information security; networking.

***Prerequisite 28121 English Language 1***

### 58201 Advanced Management Information Systems {3} [3-3]

Information systems strategic alignment; information systems development methods; information systems investments evaluation techniques; the role of the hybrid manager; major issues of managing information systems in organization.

***Prerequisite 58101 Management Information Systems***

### 58203 Programming Language I{3} [3-3]

Introduction to Computers; Introduction to Programming; problem solving; data types and variable declarations; program structure; control structures.

***Prerequisite 58102 Introduction to Information Technology***

### 58209 Programming Language II{3} [3-3]

Introduction to Object Oriented Programming (OOP); problem solving; application building using object oriented techniques: classes, Database, SQL, ADO .NET.

***Prerequisite 58203 Programming Language I***

58205 Information Systems Analysis & Design I{3} [3-3]

Analysis phase of an information systems: analyzing business case, collecting requirements; organization modeling: ERD, DFD; data and process modeling.

***Prerequisite 58201 Advanced Management Information Systems***

58207 Computer Network Management & Security{3} [3-3]

Introduction to Networks and Networking Concepts; Network Design Essentials; Networking Media; Network Interface Cards; Network Communications and Protocols; Networks Security.

***Prerequisite 58102 Introduction to Information Technology***

58210 Computer Applications in Business{3} [3-3]

Use of Microsoft Office applications in business; Excel: decision making, accounting, finance; Word: writing reports; Power Point: presenting information; Front Page: basics of designing web pages.

***Prerequisite: None***

58300 Electronic Business Management{3} [3-3]

E-Business and E-Commerce: development, types, applications, management; articulate challenges that confront firms in the process of immigration from traditional way of conducting business to an online environment; use of information technology tools.

***Prerequisite 58101 Management Information Systems***

58307 Managing Information System Resources{3} [3-3]

Technological change: management, identification; the importance of managing information technologies in today's knowledge based societies; integration framework for the management of technological market and organizational innovation.

***Prerequisite 58201 Advanced Management Information Systems***

58309 Web Design{3} [3-3]

Introduction to basic concepts issues and techniques: designing, developing, deploying Web sites; Web design: HTML, XHTML, basic JavaScript, Dynamic HTML, Cascading Style Sheets (CSS); creating dynamic Web pages using ASP.NET.

***Prerequisite 58102 Introduction to Information Technology***

58310 Database Management and Security I{3} [3-3]

Databases and Database Users; Database System Concepts and Architecture; Data Modeling Using the Entity-Relationship Model; Enhanced Entity-Relationship and Object Modeling; the Relational Data Model and Relational Database Constraints; Relational Database Design by ER- and EER-to-Relational Mapping; Functional Dependencies and Normalization for Relational Databases.

***Prerequisite 58205 Information Systems Analysis & Design I***

58312 Information Systems Analysis & Design II{3} [3-3]

Designing information systems; database design; human interface design: forms, reports, dialogues, interfaces; implementing information systems: testing, installation, training, documentation.

***Prerequisite 58310 Database Management and Security***

58401 Decision Support Systems & Expert Systems{3} [3-3]

Business decision making; concepts and types of decision support systems; how DSS systems supports decision making in the organization; basic concepts of expert systems and their role in organizations.

***Prerequisite 58201 Advanced Management Information Systems***

58405 Selected Topics in Information Systems{3} [3-3]

Advanced and contemporary topics in information systems.

***Prerequisite 58307 Managing Information Systems Resources***

58405 Database Management and Security II{3} [3-3]

Revision of all basic concepts and background information; SQL-99: Schema Definition, Constraints, Queries, Views; Introduction to SQL Programming Techniques; Database Security.

***Prerequisite 58312 Database Management and Security I***

58412 Graduation Project

Implementation process of an information system: system idea, analysis, design, implementation; project management.

***Prerequisite 58405 Database Management and Security II***