



Management Information Systems Course Specifications

Faculty: Faculty of computer and informatics

Department: Information System

Program(s) on which the course is given: Bachelor Degree in Computer & Information Sciences

Major or Minor element of program : Information System

Department offering the program : Information System

Department offering the course : Information System

Academic year / Level : Fourth Year/B.Sc.

Date of specification approval : 25/9/2009

A. Basic Information

Title: Management Information Systems **Code:** INF 484

Lectures: 3 hrs/week **Practical:** 2 hrs/week **Tutorial:** ---

Credit Hours: --- **Total:** 5 hrs/week

B. Professional Information

1. Overall Aims of Course:

This course focuses on the critical personal and organizational issues of the management information systems (MIS) function. Exposure is provided to important technical topics related to computer hardware and software. The unifying theme is the types of computer-based applications being used at different levels of an organization and how computer based applications being used at different levels

of an organization and how computer technology assists individuals to perform their jobs. The student is provided content in which to evaluate the role of information in various organizations. This course provides an overview of information systems in the business world. It presents an organizational view of how to use information technology to create competitive firms, manage global organizations, and provide useful products and services to customers. Topics include hardware, software, databases, telecommunication systems, and the strategic use of information systems, the development of information systems, and social and ethical issues involved with information systems. This course introduces information technologies that are critical to modern business organizations, discusses technology and adoption trends, and explores the evolving role of IT in business. The course covers information technologies relevant to business operations, decision making, and e-Business. Students taking this class will understand the role of information technologies in managerial decision making and business activities, the marketplace for such technologies, and their business applications, environmental constraints, and relevance to firm strategy. The course will cover the following technologies:

- data-driven decision technologies, including database systems, data warehousing, online analytical processing (OLAP) technologies, and information technologies for data mining and knowledge discovery,
- Modern communication technologies, the Internet and the World Wide Web, and how these relate to the practice of e-Business.

2. Intended Learning Outcomes of Course (ILOs):

a. knowledge and understanding

Students who complete the course will have the ability to:

- a1. Identify information, people, and information technology as the key resources in the information age.
- a2. Understand how to gain competitive advantage with IT.
- a3. Understand how Decision Support system and Artificial Intelligence System support the decisions in businesses.
- a4. Demonstrate the role of networks in achieving electronic commerce.
- a5. Explain The relationships among management, information, and systems;
- a6. Explain the relationship between a manager's need for information and his/her position in the organization;
- a7. Explain how hardware, software, data, people, and procedures are combined to form an information system;
- a8. Explain how information technology can be used by a business organization to gain a competitive advantage;
- a9. Explain why knowledge of information systems is crucial to anyone who plans a career in business.

b- Intellectual skills

Upon successful completion of the course, each student will be able to:

- B1. Illustrate and compare the methods of system development, know the seven steps in the

system development life cycle.

B2. Understand the evolution of computer-based information systems;

B3. Create breakeven point, optimization, investment management, stock management models in spread sheet decision model using Excel.

B4. Understand the marketplaces for such information technologies – what product are available, who the major vendors are, and what factors would affect a make/buy decision.

C. professional and practical skills

Knowledge of the concepts and the material studied in this course will provide the students with the capability to:

C1. Create a relational database.

C2. Identify computer hardware, software, and data concepts;

C3. Describe the types of information systems that are needed to support the various levels of a business enterprise.

C4. Mine useful information from database and data warehouse.

C5. Understand the process of analyzing, designing, and developing an information system.

D. General and transferable skills

Knowledge of the concepts and the material studied in this course will provide the students with the capability to:

d1. Develop an understanding of the needs for and roles of management information systems (MIS) within business organizations;

d2. Develop an awareness of critical issues faced by the MIS profession, including international information flow, legal and ethical issues of information usage, and security and privacy of data resources;

d3. Develop problem solving and managerial decision making skills using information systems and information technology;

d4. Develop communication skills with the use of information systems and information technology;

d5. Develop basic skills for interacting with single and multi-user information systems.

a. Attitude:

e1- A knowledge and respect of ethics and ethical standards in relation to a major area of study.

e2- Illustrate the use of example, analogy, and counter-analogy in ethical argument.

e3- Demonstrate an ethical behavior toward software copyrights.

e4- Relationship Emphasis a successful with other students.

e5- Learn how to make relation with other, and the limit of this relation.

e6- Explain the nature of privacy and how it is protected by the Data Protection.

e7- Know the danger of viruses and how to protect yourself from it.

e8- Know the culture of other peoples.

e9- Discuss the legal background of copyright in national and international law.

3. Contents:

Topic	No. of hours	Lecture	Tutorial/ Practical
Introduction to Management Information Systems	3	1	3
Information Systems in Global Business Today	3	1	3
IT Infrastructure and Platforms	3	1	3
Information Systems, Organizations, and Strategy	3	1	3
Foundations of Business Intelligence: Databases and Information Management	6	2	3
IT-enabled business intelligence: data warehousing, online analytical Processing technologies, data mining tools.	6	2	3
Telecommunications, the Internet and Wireless Technology Securing Information Systems	6	2	3
Decision Support and Artificial Intelligence	6	2	3
Managing Knowledge Enhancing Decision Making	3	1	3
Project Management: Establishing the Business Value of Systems and Managing Change	6	2	3
System development: phases, tools, and techniques	6	2	3
Ethical and Social Issues in Information Systems	3	1	3