



<b>Course Code</b> COMP/MIS 351	<b>Course Title</b> Information Systems Concepts	<b>Credits /ECTS</b> 3/6
<b>Department</b> Management & MIS	<b>Semester</b> Fall 2010	<b>Prerequisites</b> COMP-151A Fundamental Concepts of Information and Computer Technology
<b>Type of Course</b> Required/Elective	<b>Field</b> MIS/Computer Science	<b>Language of Instruction</b> English
<b>Level of Course</b> Undergraduate	<b>Year of Study</b> 2 or 3	<b>Lecturer</b> Dr. A. I. Kokkinaki

### **Objectives of the Course:**

This course is designed to provide students with an understanding of the theoretic and practical issues related to the application of information systems within organizations.

The main objectives of this course are to:

- Demonstrate how information systems integrate information and organizational processes across functional areas into unified systems.
- Outline challenges and benefits from the most commonly used enterprise systems
- Employ a software package to illustrate how enterprise systems work.
- Integrate conceptual and technical (software) skills of students so that a business problem is addressed within the scope of a group project.

### **Learning Outcomes:**

Upon completion of this course students are expected to be able to:

1. Understand the fundamentals of information systems.
2. Recognize how an organizational process often spans different functional areas.
3. Describe the role of information systems in an organization.
4. Understand how enterprise systems integrate functional areas into one enterprise-wide information system.

5. Explain how “best practices” are incorporated in enterprise systems.
6. Learn to integrate key concepts from functional-oriented courses, (i.e. accounting, marketing) to promote the development of integrative skills.
7. Explain how integrated information sharing increases organizational efficiencies.
8. Identify, describe, and evaluate the major enterprise system software providers and their packaged systems.
9. Understand current trends related to enterprise systems.

### Course Contents:

- 1. Foundations of enterprise information systems:** An introduction to information systems presents the conceptual system components and the major types of existing information systems and future trends.
- 2. Enterprise information systems and competitive advantage:** It will be explained how information systems may improve the competitive positions of organizations. Strategic alignment between the information systems and mission of the organization they serve is also examined. Case studies demonstrate how strategic advantage is obtained through information systems implementations and the challenges associated with sustaining competitive advantage.
- 3. Infrastructure:** A brief overview of information systems infrastructure, including computers, software, networks and databases. Piracy and security issues will be examined.
- 4. Web, Web 2.0 and Web 3.0 in business:** The importance and implications of web technologies in business will be examined. Existing and emerging e-business models will be presented. Characteristics of e-business relationships and their relevance for the application of e-business technology will be discussed. Emphasis will also be placed on ways of improving the efficiency and effectiveness of inter-organizational transactions and streamlining business processes.
- 5. Business processes and business process integration:** Functional and cross-functional enterprise information systems are examined. Best practices are demonstrated through case studies. Enterprise information systems are evaluated with respect to costs and benefits.
- 6. Selecting, acquiring, implementing an enterprise system:** Analyzing business requirements for selecting and implementing an enterprise information system, software selection process, and challenges associated with system implementations. Post-implementation issues and an introduction to evaluation of IT investment are also presented.

### Teaching Methods:

- Faculty Lectures and Guest-Lectures Seminars
- Directed and Background Reading
- Case Study Analysis and Discussion
- In-class Exercises
- Student-led Presentations

**Required Textbooks:**

<b>Authors</b>	<b>Title</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
Turban, Volonino	Information Technology for Management: Transforming Organizations in the Digital Economy, 7th Edition,	Wiley	2010	978-0-470-40032-6

**Recommended Textbooks/Reading:**

<b>Authors</b>	<b>Title</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
<b>*HIGHLY* RECOMMENDED</b>				
Kieran Mathieson	<i>MIS-Book.Com</i> <i>Available for free (until 2010) at:</i> <a href="http://www.mis-book.com/tiki-index.php?page=Preface">http://www.mis-book.com/tiki-index.php?page=Preface</a>			
A series of case-studies is available on students' intranet.	<i>Available for free for ever at:</i> <i>UNIC</i> <i>STUDENTS INTRANET</i>			