



University/Academy: Arab Academy for Science and Technology & Maritime Transport
Faculty/Institute: College of Computing and Information Technology
Program: Information Systems

Form No. (12)
Course Specification

1- Course Data

Course Code: IS 478	Course Title: Integrated Information Systems Management	Academic Year/Level: Year 4 / Semester 8
Specialization: Information Systems	No. of Instructional Units: 2 hrs lecture 2 hrs section	Lecture:

2- Course Aim	Most organizations which have several kinds of traditional information systems are now considering the conversation of these systems into a single integrated information system. The model of Enterprise resource- Planning (ERP) system support the daily operations of the organization while collecting vast amounts of data that can be sued in medium and long term planning. To improve the organization relationship with the customers and suppliers, most organizations integrate into the information system of the internal functions a CRM (Customer Relationship Management) System and a SRM (Supplier Relationship Management) system.
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3- Intended Learning Outcome:

a- Knowledge and Understanding	Students will be able to demonstrate knowledge of: K13.The principles and techniques of database management systems, management, data mining, geographical information systems, multimedia, application development, business process management, enterprise systems, human-computer interaction, object-oriented analysis and design, e-technologies, multimedia, image processing, information and infrastructures security and computer graphics techniques. K15. The broad context within which computer information science including issues such as quality, reliability, enterprise, employment law, accounting and health. K16. Organizational, human and economic sides of modern organizations. K19. Modeling organizational processes and data, defining and implementing technical and process solutions, managing projects, and integrating systems.
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- Name a business's main functional areas of operation. (K13)
- Differentiate a business process from a business function. (K13)
- Identify the kinds of data that each main functional area produces. (k13)
- Identify the kinds of data that each main functional area needs. (K13)
- Define integrated information systems and state why they are important(K19)
- Identify the factors that led to the development of Enterprise Resource Planning (ERP) systems. (K19)
- Describe the distinguishing characteristics of ERP software(K19)
- Discuss the pros and cons of implementing an ERP system. (K19)
- Summarize ongoing developments in ERP. (K19)
- Describe the unintegrated sales processes of A fictitious company. (K19)
- Explain why unintegrated Sales and Marketing information systems lead to company-wide inefficiency, higher costs, lost profits, and customer dissatisfaction. (K19)
- Discuss sales and distribution in SAP's R/3 system, and explain how integrated data sharing increases company-wide efficiency. (K19)
- Describe how SAP R/3 processes a standard sales order. (K19)
- Describe the core CRM Activities(K19)
- Describe the benefits of Customer Relationship Management software, a useful extension of ERP software. (K19)
- Describe the steps in the production planning process of a high-volume manufacturer . (K19)
- Describe A COMPANY's production and materials management problems(K19)
- Describe how a structured process for production and materials management planning enhances efficiency and decision making(K19)
- Describe how production planning data in an ERP system can be shared with suppliers to increase supply-chain efficiency.(K19)
- State the difference between financial and managerial accounting. (K15.K16)
- Identify and describe problems associated with accounting and financial reporting in un-integrated information systems. (K15 ,K16)
- Describe how ERP systems can solve accounting and financial reporting problems in an un-integrated system. (K15,K16)
- Describe how the Enron scandal and the Sarbanes-Oxley Act will affect accounting information systems. (K15,K16)
- Explain accounting and management reporting benefits that accrue from having an ERP system. (K15,K16)

b- Intellectual Skills

By the end of the course, the student acquires high skills and an ability to understand:

I15. Identify a range of solutions and critically evaluate and justify proposed design solutions.

I18. Perform problem analysis from written descriptions; derive requirements specifications from an understanding of problems (analysis, synthesis).

c- Professional Skills	<p><u>By the end of the course the student will have the ability to:</u></p> <p>P12. Plan and manage an information systems project from inception to final implementation and cut-over</p> <p>P15. Apply the principles of effective information acquisition, information management, organization, and information-retrieval to text, images, sound, and video.</p> <p>P17. Use tools to automate IS development phases.</p> <p>P19. Design, implement, maintain, and manage software systems.</p> <ul style="list-style-type: none"> • Analyze the project (Business Process) (P12) • Construct the Process Activity Task Matrix that is needed to automate the (Business Process) (P15) • Design the solution for the project (Business Process) (P12,P15,P19) <ul style="list-style-type: none"> • Implement the solution using your programming skills, and your experience with Database management systems(P17)
d- General Skills	<p>Students will be able to:</p> <p>G1. Demonstrate the ability to make use of a range of learning resources and to manage one's own learning.</p> <p>G7. Show the use of general computing facilities.</p>
4- Course Content	<ul style="list-style-type: none"> ▪ Business Functions, Processes, and Data Requirements ▪ The Development of Enterprise Resource Planning Systems ▪ Marketing Systems and The Sales Order Process ▪ SAP's CRM Software ▪ Production and Supply Chain Management Information Systems (part 1) ▪ Accounting in ERP Systems ▪ Human Resources Processes with ERP ▪ Process Modeling, Process Improvement, and ERP Implementation ▪ Week 13: ERP and Electronic Commerce
5- Teaching and Learning Methods	<p>Lectures, Projects, Individual study & self-learning.</p>
6- Teaching and Learning Methods for Students with Special Needs	<ul style="list-style-type: none"> • Students with special needs are requested to contact the college representative for special needs (currently Dr Hoda Mamdouh in room C504) • Consulting with lecturer during office hours. • Consulting with teaching assistant during office hours. • Private Sessions for redelivering the lecture contents. • For handicapped accessibility, please refer to program specification.
7- Student Assessment:	

a- Procedures used:	Exams and Individual Projects
b- Schedule:	Week 7 exam 2 Projects through the semester Week 16 Final exam
c- Weighing of Assessment:	7 th week exam 30% Project 10% Project 10% Course work 10% Final exam 40%
8- List of References:	
a- Course Notes	From the Moodle on www.aast.edu
b- Required Books (Textbooks)	Concepts in Enterprise Resource Planning, BRADY, JOSEPH, COURSE TECHNOLOGY 2001
c- Recommended Books	
d- Periodicals, Web Sites, ..., etc.	

Course Instructor:

Head of Department:

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