

**Detailed Course Description - Course Plan Development and Updating
Procedures/ Department of Software Engineering**

QF01/0408-3.0E

Faculty	Science and IT	Department	Software engineering
Course number	0114485	Course title	Enterprise Resource Planning Systems
Number of credit hours	3	Pre-requisite/co-requisite	0114343

This course is about enterprise resource planning (ERP) systems. It is also about how a business works and how information systems fit into business operations. It explains basic concepts of ERP systems, ERP systems' implementation, ERP systems in Action, the business modules, and market of ERP systems.

Course goals and learning outcomes	
Goal 1	Know basic business functional areas and explains how they are related.
Learning outcomes	1.1 Gain competency in the main functional areas of SAP R/3: Sales & Distribution, Materials Management, Financial, Controlling, and HR. 1.2 Be able to map business processes using process mapping techniques
Goal 2	Illustrate how un-integrated information systems fail to support business decision and how integrated information systems can help a company prosper by providing business managers with accurate, consistent, and current data
Learning outcomes	2.1 Gain competency in the main functional areas of SAP R/3: Sales & Distribution, Materials Management, Financial, Controlling, and HR. 2.3 Be able to identify and describe typical functionality in an ERP system 2.3 Understand current trends and issues related to Enterprise Systems
Goal 3	Understand how Enterprise Resource Planning software is implemented to optimize business processes acquire experience in using ERP software
Learning outcomes	3.1 Comprehend the technical aspects of ERP systems 3.2 Learn concepts of reengineering and how they relate to ERP system implementations 3.3 Understand the steps and activities in the ERP life cycle 3.4 Learn about the change management issues in ERP implementations. 3.5 Configure and test your own client to run transactions for a business on SAP.
Textbook	1. Enterprise Resource Planning 4rd Edition Kindle Edition by ALEXIS LEON, McGraw-Hill Education , 2014 2. Concepts in Enterprise Resource Planning, 4th Edition, Bret Wagner & Ellen Monk, ©2013 Course Technology
Supplementary references	1- Enterprise Resource Planning, 3rd edition, Alexis Leon, Tata McGraw-Hill, 2013. 2- Concepts in Enterprise Resource Planning, Joseph A. Brady, Ellen F. Monk, Bret J. Wagner, Course Technology, 2001, ISBN 0-619-01593-4 3- Enterprise Resource Planning Systems, Daniel E. O'Leary, Cambridge University Press, 2000, ISBN 0-521-79152-9 Using SAP R/3 FI, Ben Rockfeller, John Wiley, 1998, ISBN 0-471-17996-5

Course timeline				
Week	Number of hours	Course topics	Pages (textbook)	Notes
01	1	1. Introduction <ul style="list-style-type: none"> ○ The Enterprise ○ Introduction to ERP systems ○ Basic ERP Concepts 	3-37	Ref 1
	1			
	1			
02	1	<ul style="list-style-type: none"> ○ Justifying ERP systems Investments ○ Risks of ERP systems ○ Benefits of ERP systems 	38-58	Ref 1
	1			
	1			
03	1	2. Enterprise and Technology <ul style="list-style-type: none"> ○ ERP systems and Related Technologies ○ Business Intelligence ○ E-Business and E-Commerce 	70-84	Ref 1
	1			
	1			
04	1	<ul style="list-style-type: none"> ○ Business Process Reengineering (BPR) ○ Data Warehousing ○ Data Mining 	85-105	Ref 1
	1			
	1			
05	1	<ul style="list-style-type: none"> ○ On-line Analytical Processing (OLAP) ○ Product Life Cycle Management (PLM) ○ Supply Chain Management (SCM) 	106-125	Ref 1
	1			
	1			
06	1	<ul style="list-style-type: none"> ○ Customer Relationship Management (CRM) ○ Advanced Technology and ERP 	126-140	Ref 1
	1			
	1			

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		systems Security management		
		First exam		
07	1 1 1	3. ERP Systems Implementation <ul style="list-style-type: none"> ○ Implementation Challenges ○ ERP systems Transition Strategies ○ ERP systems Implementation Life Cycle ○ Pre-implementation Tasks—Getting Ready ○ Requirements Definition 	150-165	Ref 1
08	1 1 1	<ul style="list-style-type: none"> ○ Implementation Methodologies ○ Not all package are created equal—Package Selection ○ ERP systems Project Teams ○ Process Definition ○ Vendors and Consultants 	166-180	Ref 1
09	1 1 1	<ul style="list-style-type: none"> ○ Employees and Employee Resistance ○ Contracts with Vendors, Consultants and Employees ○ Training and Education ○ Data Migration 	181-197	Ref 1
10	1 1 1	<ul style="list-style-type: none"> ○ Project Management & Monitoring ○ Post Implementation Activities ○ Implementation—Success and Failure Factors Second exam	198-210	Ref 1
11	1 1 1	4. ERP Systems in Action <ul style="list-style-type: none"> ○ After ERP system implementation... ○ Operation and Maintenance of the ERP Systems 	230-260	Ref 1
12	1 1 1	<ul style="list-style-type: none"> ○ Measuring the Performance of the ERP Systems ○ Maximizing the ERP Systems 	261-280	Ref 1

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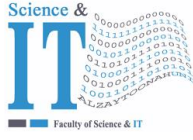
13	1 1 1	5. The Business Modules <ul style="list-style-type: none"> ○ Business modules of an ERP package ○ Finance ○ Manufacturing ○ Human resource ○ Plant maintenance 	290-325	Ref 1	
	1 1 1	<ul style="list-style-type: none"> ○ Material management ○ Quality management ○ Marketing ○ Sales and distribution service 			
	1 1 1	6. The ERP Systems Market <ul style="list-style-type: none"> ○ ERP Marketplace and Marketplace Dynamics ○ SAP AG ○ Oracle corporation ○ People soft 			370-390
1 1 1	Final exam				

Theoretical course evaluation methods and weight	Participation = 10% First exam 20% Second exam 20% Final exam 50%	Practical (clinical) course evaluation methods	Semester students' work = 50% (Reports, research, quizzes, etc.) Final exam = 50%
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Approved by head of department		Date of approval	
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Extra information (to be updated every semester by corresponding faculty member)

Name of teacher		Office Number	
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"When Vision Becomes Reality"

جامعة الزيتونة الأردنية
Al-Zaytoonah University
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كلية العلوم وتكنولوجيا المعلومات
Faculty Of Science & IT



"عراقة وجودة"
Tradition and Quality

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Phone number (extension)		Email	_____@zug.edu.jo
Office hours			