

Detailed Course Description - Course Plan Development and Updating Procedures/ Computer Information Systems Department	QF01/0408-3.0E
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Faculty	Science and Information Technology	Department	Computer Information Systems
Course Number	0113456	Course Title	Enterprise Resource Planning (ERP)
Number of Credit Hours	3	Pre-Requisite/Co-Requisite	Business Information Systems (0113252)

Brief Course Description

ERP systems are enterprise-wide information systems that integrate various functional operations and streamline business processes. This course aims to introduce the concepts of ERP systems as well as the application, implementation, and management of ERP. The course provides an overview of Enterprise Resource Planning software systems and their role within an organization. It introduces key concepts integrated information systems and explains why such systems are valuable to businesses.

Course Goals and Learning Outcomes	
Goal 1	Fundamental Business Knowledge.
Learning Outcomes	1.1 Demonstrate understanding of fundamental business concepts and skills. 1.2 Ability to analyze business information in performing business related tasks.
Goal 2	Integrative Business Competence.
Learning Outcomes	2.1 Analyze and evaluate the critical stage of implementation in the development of enterprise wide systems. 2.2 Evaluate and debate the need for linking enterprise mission & goals with the implementation of ERP systems.
Goal 3	Enterprise Recourse Planning Development Skills.
Learning Outcomes	3.1 A grasp of basic concepts and issues of ERP systems. 3.2 A basic understanding of the adoption of ERP systems to enhance operational efficiency. 3.3 A basic understanding of ERP planning and implementation. 3.4 A grasp of basic functions and usages of ERP systems.
Textbook	1. “Concepts in Enterprise Resource Planning, 4th Edition” , Monk, Ellen and Wagner, Bret J., Course Technology Cengage Learning, 2013.
Supplementary References	1. “Integrated Business Processes with ERP Systems” , Simha R. Magal, Jeffrey Word, Wiley, 2011.

Course Timeline				
Week	Number of Hours	Course Topics	Pages (Textbook)	Notes
01	1 1 1	<u>Chapter 1: Business Functions and Business Processes</u> <ul style="list-style-type: none"> ▪ Functional Areas and Business Processes ▪ Functional Areas and Business Processes of a Very Small Business <ul style="list-style-type: none"> • Marketing and Sales • Supply Chain Management • Accounting and Finance • Human Resources 	1-8	
02	1 1 1	<u>Chapter 1: Business Functions and Business Processes</u> <ul style="list-style-type: none"> ▪ Functional Area Information Systems <ul style="list-style-type: none"> • Marketing and Sales • Supply Chain Management • Accounting and Finance • Human Resources 	8-16	
03	1 1 1	<u>Chapter 2: The Development of Enterprise Resource Planning Systems</u> <ul style="list-style-type: none"> ▪ The Evolution of Information Systems ▪ Computer Hardware and Software Development ▪ Early Attempts to Share Resources ▪ The Manufacturing Roots of ERP ▪ Management's Impetus to Adopt ERP 	19-25	
04	1 1 1	<u>Chapter 2: The Development of Enterprise Resource Planning Systems</u> <ul style="list-style-type: none"> ▪ ERP Software Emerges ▪ New Directions in ERP ▪ Features of SAP ERP 	25-31	
05	1 1 1	<u>Chapter 2: The Development of Enterprise Resource Planning Systems</u> <ul style="list-style-type: none"> ▪ ERP for Midsized and Smaller Companies ▪ Responses of the Software to the Changing Market ▪ Choosing Consultants and Vendors ▪ The Significance and Benefits of ERP Software and Systems 	32-45	Simulation Modeling and Analysis

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06	1 1 1	<p>Chapter 3: Marketing Information Systems and the Sales Order Process</p> <ul style="list-style-type: none"> ▪ Sales Quotations and Orders ▪ Order Filling ▪ Accounting and Invoicing ▪ Payment and Returns 	49-55	
07	1 1 1	<p>Chapter 3: Marketing Information Systems and the Sales Order Process</p> <ul style="list-style-type: none"> ▪ Sales and Distribution in ERP ▪ Presales Activities ▪ Sales Order Processing ▪ Inventory Sourcing ▪ Delivery ▪ Billing ▪ Payment ▪ First Exam 20% 	56-58	
08	1 1 1	<p>Chapter 3: Marketing Information Systems and the Sales Order Process</p> <ul style="list-style-type: none"> ▪ Customer Relationship Management (CRM) ▪ Core CRM Activities ▪ The Benefits of CRM 	66-72	
09	1 1 1	<ul style="list-style-type: none"> ▪ SAP's CRM Software Demo 		
10	1 1 1	<p>Chapter 4: Production and Supply Chain Management Information Systems</p> <ul style="list-style-type: none"> ▪ Production Overview ▪ Filter Case Study ▪ The Production Planning Process 	78-85	
11	1 1 1	<p>Chapter 4: Production and Supply Chain Management Information Systems</p> <ul style="list-style-type: none"> ▪ Sales Forecasting 84 ▪ Sales and Operations Planning ▪ Demand Management 	84-96	
12	1 1 1	<ul style="list-style-type: none"> ▪ The SAP ERP Approach to Production Planning Demo ▪ Second Exam 20% 		

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12	1 1 1	Chapter 4: Production and Supply Chain Management Information Systems <ul style="list-style-type: none"> ▪ Materials Requirements Planning (MRP) ▪ Bill of Material ▪ Lead Times and Lot Sizing 	97-104	
13	1 1 1	<ul style="list-style-type: none"> ▪ Materials Requirements Planning in SAP ERP Demo 		
14	1 1 1	Chapter 4: Production and Supply Chain Management Information Systems <ul style="list-style-type: none"> ▪ Detailed Scheduling ▪ Providing Production Data to Accounting ▪ ERP and Suppliers 	105-106	
15	1 1 1	Chapter 4: Production and Supply Chain Management Information Systems <ul style="list-style-type: none"> ▪ The Traditional Supply Chain ▪ EDI and ERP ▪ The Measures of Success 	107-115	
16	1 1 1	<ul style="list-style-type: none"> ▪ Project Discussion ▪ Final Exam 50% 		

Theoretical Course Evaluation Methods and Weight	Participation = 10% First exam 20% Second exam 20% Final exam 50%	Practical 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	
Phone Number (extension)		Email	_____@zuj.edu.jo
Office Hours			