

جامعة الزيتونة الأردنية AI-Zaytoonah University of Jordan كلية العلوم وتكنولوجيا المعلومات Faculty of Science and Information Technology



" عراقة وجودة" "Tradition and Quality"

Detailed Course Description - Course Plan Development and Updating Procedures/ Computer Information Science Department

QF01/0408-3.0E

Faculty	Science and Information Technology	Department	Computer Science
Course Number	0112353	Course Title	System Analysis and Design تحليل و تصميم النظم الحاسوبية
Number of Credit Hours	3	Pre-Requisite/Co- Requisite	Data Base (1) (0112251)

Brief Course Description

This course introduces the students to the concepts and skills of system analysis and design. It includes expanded coverage of data flow diagrams, data dictionary, and process specifications. This course aims to as to introduce variety of new software used by analysts, designers to manage projects, analyze and document systems, design new systems and implement their plans.

	Course Goals and Learning Outcomes		
Goal 1	Knowledge and understanding.		
Learning Outcomes	 1.1 Understand the principles and tools of systems analysis and design. 1.2 Understand the application of computing in different context. 1.3 Understand the professional and ethical responsibilities of practicing the computer professional including understanding the need for quality. 		
Goal 2	Cognitive skills (thinking and analysis).		
Learning Outcomes	 2.1 Solve a wide range of problems related to the analysis, design and construction of information systems. 2.2 Analysis and Design of systems of small sizes. 		
Goal 3	Communication skills (personal and academic).		
Learning Outcomes	3.1 Be able to present projects.		
Goal 4	Practical and subject specific skills (Transferable Skills).		
Learning Outcomes	4.1 Plan and undertake a major individual project, prepare and deliver coherent and structured verbal and written technical reports.		
Textbook	 "System Analysis and Design" Kendall & Kendall, 9th Edition; Pearson, 2014. "Modern Systems Analysis and Design" Joseph Valacich, Joey George, 8th Edition; Pearson, 2016. 		



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Supplementary References	1. "Systems Analysis and Design" Shelly, Cashman & Rosenby Pearson, 2012.	latt, 9th Edition,

Week	Number of Hours 1 1 1	Course Topics Chapter 1: System Analysis Fundamentals Systems, Roles, and Development	Pages (Textbook)	Notes
	1 1	 Systems, Roles, and Development 		
02		MethodologiesTypes of Systems	1-30	
	1 1 1	 Chapter 1: System Analysis Fundamentals Integrating Technologies for Systems Need for Systems Analysis and Design Roles of the System Analyst 	32-34	
03	1	Chapter 1: System Analysis Fundamentals The System Development Life Cycle Chapter 3: Project Management Project Initiation 	36 84-90	
	1	 Determining Feasibility 		
04	1 1 1	 <u>Chapter 3: Project Management</u> Ascertaining Hardware and Software Needs Activity Planning and Control 	91-105	
05	1 1 1	System Analysis Project Lunching Build the Team Prepare the Initial Proposal Building Business Model 		
06	1 1 1	 Chapter 4: Information Gathering: Interactive Methods Interviewing Joint Application Design Using Questionnaires 	131-142	
07	1 1 1	System Analysis Project First Presentation-Analysis Phase Introduce Project Information Gathering Techniques First Exam 20%		
08	1 1 1	Chapter 5: Information Gathering: Unobtrusive • Methods • Sampling • Investigation • Observing a Decision Maker's Behavior • Observing the Physical Environment Chapter 7: Using Data Flow Diagrams	159-170	



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Deta	Detailed Course Description - Course Plan Development and Updating Procedures/ Computer Information Science Department			
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	1	I The Data Flow Approach to Human		
	1	Requirements Determination		
		 Developing Data Flow Diagrams 		
	1	DFD Case Study		
10		 Discussion and Brain Storming 		
10	1	 Designing the Context Diagram 		
	1	 Designing Lower Level Diagrams 		
	1	Chapter 7: Using Data Flow Diagrams		
11	1	 Logical and Physical Data Flow Diagrams 	228-235	
	1	 A Data Flow Diagram Example 		
	1	Chapter 8: Analyzing Systems Using Data Dictionaries		
12	1	 The Data Dictionary 	256-257	
	1	 The Data a Repository 		
	1	Project Design Phase Discussion		
13	1	 Second Presentation-Design Phase 		
	1	Second Exam 20%		
	1	Chapter 9: Process Specifications and Structured		
14	1	Decisions	287-289	
14	1	 Overview of Process Specifications 		
	1	 Structured English 		
	1	Chapter 9: Process Specifications and Structured		
15	1	Decisions	294-299	
15	1	 Decision Tables 		
	1	 Decision Trees 		
		Project Design Phase Discussion		
	1	 Final Presentation 		
16	1	 Project Document Submission 		
	1			
		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 A	Approval		
Extra information (to be	Extra information (to be updated every semester by corresponding faculty member)			
Name of Teacher	Office Num	nber		
Phone Number (extension)	Email	@zuj.edu.jo		

