



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	0113342	Course Title	System Analysis and Design
Number of Credit Hours	3	Pre-Requisite/Co-Requisite	Data Base (0113241)

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	1. "System Analysis and Design" Kendall & Kendall, 9th Edition; Pearson, 2014. 2. "Modern Systems Analysis and Design" Joseph Valacich, Joey George, 8th Edition; Pearson, 2016.
Supplementary References	1. "Systems Analysis and Design" Shelly, Cashman & Rosenblatt, 9th Edition, Pearson, 2012.

Course Timeline

Week	Number of Hours	Course Topics	Pages (Textbook)	Notes
01	1 1 1	Chapter 1: System Analysis Fundamentals <ul style="list-style-type: none"> Systems, Roles, and Development Methodologies Types of Systems 	1-30	
02	1 1 1	Chapter 1: System Analysis Fundamentals <ul style="list-style-type: none"> Integrating Technologies for Systems Need for Systems Analysis and Design Roles of the System Analyst 	32-34	
03	1 1 1	Chapter 1: System Analysis Fundamentals <ul style="list-style-type: none"> The System Development Life Cycle Chapter 3: Project Management <ul style="list-style-type: none"> Project Initiation Determining Feasibility 	36 84-90	
04	1 1 1	Chapter 3: Project Management <ul style="list-style-type: none"> Ascertaining Hardware and Software Needs Activity Planning and Control 	91-105	
05	1 1 1	System Analysis Project Lunching <ul style="list-style-type: none"> Build the Team Prepare the Initial Proposal Building Business Model 		
06	1 1 1	Chapter 4: Information Gathering: Interactive Methods <ul style="list-style-type: none"> Interviewing Joint Application Design Using Questionnaires 	131-142	
07	1 1 1	System Analysis Project <ul style="list-style-type: none"> First Presentation-Analysis Phase Introduce Project Information Gathering Techniques First Exam 20%		
08	1 1 1	Chapter 5: Information Gathering: Unobtrusive <ul style="list-style-type: none"> Methods Sampling Investigation Observing a Decision Maker's Behavior Observing the Physical Environment 	159-170	
09	1 1 1	Chapter 7: Using Data Flow Diagrams <ul style="list-style-type: none"> The Data Flow Approach to Human Requirements Determination Developing Data Flow Diagrams 	221-223	
10	1 1	DFD Case Study <ul style="list-style-type: none"> Discussion and Brain Storming 		

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	1	<ul style="list-style-type: none"> Designing the Context Diagram Designing Lower Level Diagrams 		
11	1 1 1	<u>Chapter 7: Using Data Flow Diagrams</u> <ul style="list-style-type: none"> Logical and Physical Data Flow Diagrams A Data Flow Diagram Example 	228-235	
12	1 1 1	<u>Chapter 8: Analyzing Systems Using Data Dictionaries</u> <ul style="list-style-type: none"> The Data Dictionary The Data a Repository 	256-257	
13	1 1 1	<u>Project Design Phase Discussion</u> <ul style="list-style-type: none"> Second Presentation-Design Phase Second Exam 20%		
14	1 1 1	<u>Chapter 9: Process Specifications and Structured Decisions</u> <ul style="list-style-type: none"> Overview of Process Specifications Structured English 	287-289	
15	1 1 1	<u>Chapter 9: Process Specifications and Structured Decisions</u> <ul style="list-style-type: none"> Decision Tables Decision Trees 	294-299	
16	1 1 1	<u>Project Design Phase Discussion</u> <ul style="list-style-type: none"> Final Presentation Project Document Submission 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			