



**Jordan University of Science and Technology**  
**Faculty of Computer & Information Technology**  
**Software Engineering Department**

SE320 System Analysis And Design
Summer Semester 2019-2020

<b>Course Catalog</b>
3 Credit Hours. 3 Credit hours (3 h lectures). An introduction to the system development life cycle. Emphasis on strategies and techniques of systems planning, analysis and design, documentation, implementation and evaluation. Students are expected to carry out group projects using the system development life cycle.

<b>Text Book</b>	
<b>Title</b>	Modern System Analysis and Design
<b>Author(s)</b>	Modern Systems Analysis and Design
<b>Edition</b>	8th Edition
<b>Short Name</b>	Ref #1
<b>Other Information</b>	ISBN-13: 978-0134204925 ISBN-10: 0134204921

<b>Instructor</b>	
<b>Name</b>	Dr. ZAKAREA AL SHARA
<b>Office Location</b>	N2 L-0
<b>Office Hours</b>	Sun : 14:30 - 16:30 Mon : 09:30 - 11:30 Tue : 14:30 - 16:30 Wed : 09:30 - 11:30
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<b>Class Schedule &amp; Room</b>	
Section 1: Lecture Time: Sun, Mon, Tue, Wed : 11:30 - 13:00 Room: منصة الكترونية	
Section 2: Lecture Time: Sun, Mon, Tue, Wed : 13:00 - 14:30 Room: منصة الكترونية	

<b>Prerequisites</b>		
<b>Line Number</b>	<b>Course Name</b>	<b>Prerequisite Type</b>
1742210	Cis221 Fundamentals Of Database Systems	Prerequisite / Study
1762300	SE230 Fundamentals Of Software Engineering	Prerequisite / Study

<b>Tentative List of Topics Covered</b>		
<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Course Introduction, Introduction to System Analysis, and The system development environment.	<b>Chapter 1</b> From Ref #1
Weeks 2, 3, 4	Determine system requirements, Using Prototyping, and Contemporary approaches to requirements determination and impact analysis of changing requirements of systems.	<b>Chapters 6 , 7</b> From Ref #1
Weeks 5, 6, 7, 8	Structuring system requirements :process modeling, and Structuring system requirements: logic modeling	<b>Chapters 8, 9</b> From Ref #1
Week 9	Designing database, and Designing Forms and repots	<b>Chapter 10</b> From Ref #1
Weeks 10, 11, 12	Designing Interfaces and Dialogues, and Designing graphical user interfaces	<b>Chapter 11</b> From Ref #1
Weeks 13, 14	Architecture Design	<b>Chapter 12</b> From Ref #1

<b>Mapping of Course Outcomes to Program Student Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Ability to apply the process of determining system requirements. [6D1p, 4D2p, 6ET5p]	16%	

Ability to create and apply process modeling such as DFDs (Data Flow Diagrams). [11D1p, 10EA2p]	21%	
Ability to create and apply conceptual data modeling such as ERDs (Entity Relational Diagrams). [10EA2p, 10ET2p]	20%	
Ability to apply the Data bases, forms, and reports design concepts. [8D5p, 4ET2p]	12%	
Ability to apply the concepts of designing interfaces and dialogues for software systems. [14D2p]	14%	
Ability to apply and perform the implementation phase on a software project and so explain the important of such phase . [1EP2p, 1EP9p]	2%	
Ability to apply the basic terms associated with the system and system analysis, such terms are SDLC and system thinking. [5EA1p, 2EP7p, 5ET3p, 3ET4p]	15%	

Relationship to Program Student Outcomes (Out of 100%)																														
A	B	C	D	E	F	G	H	I	J	K	SM1p	SM2p	SM3p	EA1p	EA2p	EA3p	EA4p	D1p	D2p	D3p	D4p	D5p	D6p	ET1p	ET2p	ET3p	ET4p	ET5p	ET6p	EP1p
														5	20			17	18			8			14	5	3	6		

Evaluation	
Assessment Tool	Weight
Midterm	20%
HWs	30%
Final	50%

Policy	
Attendance	Excellent attendance is expected. In accordance with university regulations, students missing more than 20% of total classes are subject to failure. No excuses will be accepted. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed. Attendance will be recorded at the beginning or end of each class.
Participation	Participation in, and contribution to class discussions will affect your final grade positively. Raise your hand if you have any question, it worth 5% of the grade. Making any kind of disruption and (side talks) in the class will affect you negatively, Cell phone (Mobile) MUST BE SHUT OFF before you get in to the class.
Project	Presentation will be marked on the subject matter, professionalism, and creativity, 10% on the progress reports, and other 10% on the presentation. The project will be group of 2-3 (or more) students and all must participate in both presentations, it is your responsibility to select your group and coordinate the effort and presentations of the project. Both phases must submitted on or before the due date and presented by the group.
Exams	All exams will be CLOSE-BOOK. The format for the exams is generally as follows: multiple-choice, and short essay questions.
Makeup Exams	Makeup exam should not be given unless there is a valid excuse. Arrangements to take an exam at a time different than the one scheduled MUST be made prior to the scheduled exam time. In accordance with university regulations, students should bring a valid excuse authenticated through valid channels in JUST.
Workload	Average work-load student should expect to spend is 4 hours/week.
Code of Conduct	Quizzes and exams need to be done individually. Copying of another student's work, even if changes are subsequently made, is inappropriate, and such work will not be accepted. Cheating or copying from neighbor on exam is an illegal and unethical activity and standard JUST policy will be applied. All graded assignments must be your own work.

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