



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

SE230 Fundamentals Of Software Engineering
Summer Semester 2019-2020

Course Catalog
3 Credit Hours. This course is 3 credit hours. It provides students with a broad perspective of Software Engineering discipline and emphasizes the differences between software engineering discipline and other engineering disciplines. It highlights the theories, methods, and tools used in professional software developments. The covered topics include the software process, agile methods, requirement engineering, system modeling, architectural design, design and implementation, software testing, and software evolution.

Text Book	
Title	Software Engineering
Author(s)	Ian Sommerville
Edition	9th Edition
Short Name	Ref #1
Other Information	

Instructor	
Name	Dr. KHALDOON ALZOUBI
Office Location	-
Office Hours	
Email	ktalzoubi@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun, Mon, Tue, Wed : 10:00 - 11:30 Room: منصة الالكترونية
Section 2: Lecture Time: Sun, Mon, Tue, Wed : 11:30 - 13:00 Room: منصة الالكترونية

Prerequisites		
Line Number	Course Name	Prerequisite Type
1732112	CS211 Data Structures	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Software engineering fundamentals Overview	
Week 3	Requirements Engineering & related Modelling	
Week 4	Software Architecture & related Modelling	
Week 5	Software Design & Related Modelling	
Week 6	Software Testing	
Week 7	Software Project Management	
Week 8	Review	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Students will be able to recognize software engineering terminologies, and the overall software development cycle and agile/plan-driven methods [1D4p, 1ET1p]	20%	Mid Exam, Quizzes, Final Exam
Students will be able to state and analyze the main concepts of Software Requirements Engineering (including related Graphical Modelling) [1D2p, 1D4p, 1D6p]	25%	Mid Exam, Quizzes, Final Exam
Students will be able to state and analyze the main concepts of Software Architecture principles and patterns (in addition to related Graphical Modelling) [1D5p, 1D6p, 1ET4p]	20%	Mid Exam, Quizzes, Final Exam

Students will be able to state and analyze the main concepts of Software Design principles and patterns (in addition to related Graphical Modelling) [1D4p, 1D5p, 1D6p, 1ET1p, 1ET4p]	20%	Mid Exam, Final Exam
Students will be able to state and analyze the main concepts of Software Testing principles (black/white boxing) [1EA1p, 1EP1p, 1ET4p]	15%	Mid Exam, Quizzes, Final Exam

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	E		
														5						8.33		22.33	10.67	19	14				15.67			

Evaluation	
Assessment Tool	Weight
Mid Exam	30%
Quizzes	20%
Final Exam	50%

Policy	
Exams	* The format for the exams is generally (but NOT always) as follows: general definitions, Multiple-choice, and short essay questions. * Makeup exam should not be given unless there is a valid excuse.
Attendance	* If you miss a class, it is your responsibility to find out about any announcements or assignments you may have missed. * University policies will be applied regarding attendance.

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