Faculty: Information Technology	
Department: Software Engineering	**Program:** Master
Academic year: 2021/2022	**Semester: 2nd**

Course Plan

First: Course Information

Course No.	*Course Title:*		*Credit Hours:*
Prerequisite:	*Section No.:*		*Lecture Time:*
Type Of Course:	☐ *Obligatory Faculty Requirement* ☐ *Obligatory University Requirement* ☐ *Course Elective Specialty Requirement*	☐ *Elective University Requirement* ☐ *Faculty Requirement* ■ *Obligatory Specialization requirement* ☐
Type of Learning:	■ *Face-to-Face Learning* ☐ *Blended Learning(2 Face-to-Face + 1Asynchronous)* ☐ *Online Learning (2 Synchronous+1 Asynchronous)*	

Second: Instructor's Information

Name: Ahmad Nabot	*Academic Rank: Assistant Professor*	
Office Number: 127 B	*Ext. Number: 1362*	*E-mail: anabot@zu.edu.jo*
Office Hours:	*Sunday Tuesday Thursday* *11-12*	

Third: Course Description

The Software Requirements Engineering course looks at activities aimed at establishing a common understanding of the problem domain, what the clients and users expects the newly developed system to do, types of user requirements, completeness and consistency properties to be addressed by a Software Project. It includes methods techniques and tools associated with the elicitation, analysis and modeling, specification, review and management of software requirements. Students are given hand-on–practice using selected case studies and a team or individual project to collect, prototype, model, specify and verify requirements of a mid-sized Software Project.

Fourth: Learning Source

Main Reference:	Requirements engineering for software and systems	
Author:	Issue No.:	Publication Year: 2017
Additional Sources&Websites:	• *Moodle* •	
Teaching Type:	■ *Classroom* □ *Laboratory* □ *Workshop* □ *MS Teams* □ *Moodle*	

Fifth: Learning Outcomes

Course Code	Course IntendedLearning Outcomes (CILOs)	Connection To Program ILOs Code
Knowledge		
K1	List the basic Req. Eng. Standards and structures.	PK1, PK3
K2	List the concept of requirement, Req. Process, and main req. models.	PK2, PK3
K3	List advanced concepts of Req. modeling, risk analysis, documentation, prototyping, req. change management etc.	PK2, PK3, PK4
K1	List the basic Req. Eng. Standards and structures.	PK1, PK3
K2	List the concept of requirement, Req. Process, and main req. models.	PK2, PK3
Skills		
S1	Distinguish requirement Engineering process.	PS2, PS3
S2	Analyze and compare different requirement models.	PS3, PS4
S3	Discuss and work in a group in order to design and implement solutions of several req. resources Management issues.	PS1, PS2
S4		PS3, PS5
S1	Distinguish requirement Engineering process.	PS2, PS3
Competencies		
C1	Understand the importance of software requirements. The rules for each of them and how you schedule them and with whom.	PC1, PC2, PC4
C2	Implement solutions of a range of software tools in support of the requirements engineering process.	PC2,PC3

C3	Implement solutions using software requirements document.		PC1, PC3
C1	Understand the importance of software requirements. The rules for each of them and how you schedule them and with whom.		PC1, PC2, PC4
C5			PC5

* P: Program, **K: knowledge, ***S: skills, ****C: competencies.

Sixth: Course Structure

Lecture Date	Intended Teaching Outcomes(ILOs)	Topics	Teaching *Procedures	Teaching ***Methods	References***
12/3/2022	K1	- Course Syllabus discussion -Introduction to Requirements Engineering.	Direct	Lecture	Course Slides - book
19/3/2022	K1, K2	Project failure & success factors	Direct	Lecture	Course Slides - book
26/3/2022	K1, K2	Definition of Requirements Engineering, Classification of requirements	Direct	Lecture	Course Slides - book
2/4/2022	K1, K3, S1, S2	What customer wants, Problems with traditional requirements engineering	Direct	Lecture	Course Slides - book
9/4/2022	K1, K3, S1, S2, C1, C2	Requirement elicitation techniques	Direct	Lecture	Course Slides - book
16/4/2022	K1, K2, K3, S1, S2, S3, C1, C2, C3, C4	Writing requirements Documents	Direct	Lecture	Course Slides - book
23/4/2022	K1, K2, K3, S1, S2, S3, C1, C2, C3, C4	Requirements representation approaches	Direct	Lecture	Course Slides - book

Date	ILOs	Topic	Learning procedures*	Teaching methods**	Reference***
30/4/2022	K1, K2, K3, S1, S2, S3, C1, C2, C3, C4	IEEE standard 830 and ISO standard 25030	Direct	Lecture	Course Slides - book
7/5/2022	K1, K2, K3, S1, S2, S3, C1, C2, C3, C4	Use case	Direct	Lecture	Course Slides - book
14/5/2022	K1, K2, K3, S1, S2, S3, C1, C2, C3, C4	Requirements format	Direct	Lecture	Course Slides - book
21/5/2022	K1, K2, K3, S1, S2, S3, C1, C2, C3, C4	Final recommendation Requirements Risk Management	Direct	Lecture	Course Slides - book
28/5/2022	K1, K2, K3, S1, S2, S3, C1, C2, C3, C4	Requirements Risk Management Validation and Verification	Direct	Lecture	Course Slides - book
4/6/2022	K1, K2, K3, S1, S2, S3, C1, C2, C3, C4	Benefits of V &V	Direct	Lecture	Course Slides - book
4/6/2022		Formal Methods and Requirements .Management	Direct	Lecture	Course Slides - book

* Learning procedures: (Face-to-Face, synchronous, asynchronous). * * Teaching methods: (Lecture, video…..). ** * Reference: (Pages of the book, recorded lecture, video….).

Seventh: Assessment methods

Methods	Online Learning	Blended Learning	Face-To-Face Learning	Measurable Course (ILOs)
First Exam	0	0	0	
Second Exam	0	0	0	
Mid-term Exam	30	30	0	

Participation	0	0	0	
Asynchronous Activities	30	30	0	
Final Exam	0	0	40	

Eighth: Course Policies

- All course policies are applied on all teaching patterns (online, blended, and face-to-face Learning) as follows:
  a. Punctuality.
  b. Participation and interaction.
  c. Attendance and exams.
- Academic integrity: (cheating and plagiarism are prohibited).

Approved by:	Name	Date	Signature
Head of Department			
Faculty Dean			