

# جامعة الزيتونــة الأردنيـة Al-Zaytoonah University of Jordan كلية العلوم وتكنولوجيا المعلومات Faculty of Science and IT



QF01/0408-4.0E Course Plan for Bachelor program - Study Plan Development and Updating Procedures/
Department

Study plan No.	2021/2022		University Specia	lization	Software Engin	neering
Course No.	0114443		Course name		Object Oriente Analysis and I	•
Credit Hours	3		Prerequisite Co-req	uisite	Systems Analy	sis and Design
Course type	☐ MANDATORY UNIVERSITY REQUIREMENT	UNIVERSITY ELECTIVE REQUIREMENTS	☐ FACULTY MANDATORY REQUIREMENT	☐ Support course family requirements	√ Mandatory requirements	☐ Elective requirements
Teaching style	☐ Full online	e learning	☐ Blended lear	ning	√ Traditiona	l learning
Teaching model	□ 2Synchronous	s: 1asynchronous	☐ 2 face to face :	1synchronous	√3 Tradition	nal

# Faculty member and study divisions information (to be filled in each semester by the subject instructor)

Name	Academic rank	Office No.	Phone No.	]	E-mail
Mohammad Muhairat	Associate Professor			drmohairat@	zuj.edu.jo
Division number	Time	Place	Number of students	Teaching style	Division number
				Traditional	

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к	PIA	•	DCCPI	nt	IOD
J		LU	lescri	IJΨ	IUII

Scrum is an Agile-based framework in which developers can address complex issues while delivering high-value products creatively and
productively. It is used to manage product development. Developers can use it to deploy numerous processes and techniques for the
development of the product.

Learning resources

Learning resources				
Course book information	Essential Scrum: A Pract	ical Guide to the Most P	opular Agile Process, Kenn	eth Rubin, 2012,
(Title, author, date of issue,	Addison Wesley.			
publisher etc)				
Supportive learning resources	1. SCRUM: The	Ultimate Beginner's Gui	de to learn and Master Scru	m Agile Framework,
(Books, databases,	HEIN SMITH,	2018, kindle.		
periodicals, software,				
applications, others)				
Supporting websites	https://www.scrum.org	g/		
The physical environment for	√ Class room	√ labs	☐ Virtual	☐ Others
teaching			educational	
			platform	
Necessary equipment and	CASE TOOLS such as O	ClickUp		
software				
Supporting people with				
special needs				
For technical support				



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"Tradition and Quality"

QF01/0408-4.0E

Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Department

## Course learning outcomes (S = Skills, C= Competences K= Knowledge,)

No.	Course learning outcomes	The associated program learning output code
	Knowledge	
K1	The knowledge of software engineering principles, including a thorough understanding of software analysis and design, evaluation and testing and software quality and correctness.	MK1
K2	Understanding of software engineering processes, including management of complex software development projects.	MK2
	Skills	
S1	An ability to analyze, design, verify, validate, implement, apply, maintain, and manage the development of software systems to meet desired needs within realistic constraints.	MS1
S2	An ability to identify, formulates, and solve software engineering problems.	MS2
S3	An ability to use the techniques, skills, and modern tools necessary for software engineering practice.	MS3
	Competences	
<b>C1</b>	An ability to function on multidisciplinary teams to communicate effectively.	MC1
C2	Ability to develop software systems in one or more significant application domains.	MC2

#### Mechanisms for direct evaluation of learning outcomes

Type of assessment / learning style	Fully electronic learning	Blended learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
Midterm exam	30%	30%	40%	30%
Participation / practical applications	0	0	10%	30%
Asynchronous interactive activities	30%	30%	0	0
Final exam	40%	40%	50%	40%

**Note:** Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

#### Schedule of simultaneous / face-to-face encounters and their topics

Week	Subject	learning style*	Reference **
1	Introduction	Lecture	1-12
_	Scrum Framework		13-28
2	Agile Principles	Lecture	29-60
3	Sprints	Lecture	61-78
	Requirements and User Stories		79-98
4	Product Backlog	Lecture	99-118
-	Estimation and Velocity		119-138
5	Technical Debt	Lecture	139-164
6	Product Owner	Lecture	165-184
	Scrum Master		185-194
7	Development Team	Lecture	195-212
1	Scrum Team		213-224



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	Managers		225-246
8	Scrum Planning Principles	Lecture	247-256
	Multilevel Planning		257-266
9	Portfolio Planning	Lecture	267-286
	Envisioning (Product Planning)		287-306
10	Release Planning	Lecture	307-334
_ ~	Sprint Planning		335-346
11	Sprint Execution	Lecture	347-362
	Sprint Review		363-374
12	Sprint Retrospective	Lecture	375-394
13	Building a Project	learning through projects,	
		learning through problem	
		solving	
14	Building a Project	learning through projects,	
		learning through problem	
		solving	
15	Building a Project	learning through projects,	
		learning through problem	
		solving	
16	Final Exam		

<sup>\*</sup> Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

### Schedule of asynchronous interactive activities (in the case of e-learning and blended learning)

Week	Task / activity	Reference	<b>Expected results</b>
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

<sup>\*\*</sup> Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.