

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



"Tradition and Quality"

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

Study plan No.	2021/2022		University Specialization		Software Engineering	
Course No.	0114455		Course name		Software development and documentation	
Credit Hours	3		Prerequisite Co-requisite		Systems Analysis 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 learning		☐ Blended lear	ning	√ Traditiona	al learning
Teaching model	☐ 2Synchronous: 1asynchronous		☐ 2 face to face :	1synchronous	√3 Traditio	nal

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

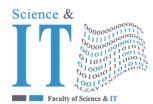
Name	Academic rank	Office No.	Phone No.	E-m	ail
Mohammad	Associate	340		drmohairat@zuj.edu.j	
Muhairat	Professor				
Division number	Time Place	Place	Number of	Teaching	Approved model
Division number	Time	1 lace	students	style	model
				Traditional	

#### **Brief description**

This course introduces students to programming technologies, design and development related to Web applications. Topics include, Introduction to oracle ADF, ADF Faces Rich Client Lifecycle, Working with Oracle ADF Task Flows, Page Navigation, Working with GUI Components, Working with security, etc.... Upon completion, students should be able to create basic Web application.

**Learning resources** 

Course book information (Title, author, date of issue, publisher etc)	Oracle Fusion Developer Guide: Building Rich Internet Applications with Oracle ADF Business Components and Oracle ADF Faces, Frank Nimphius and Lynn Munsinger,2019, McGraw-Hill Education.			
Supportive learning resources (Books, databases, periodicals, software, applications, others)	<ol> <li>https://docs.oracle.com/middleware/1212/adf/docs.htm</li> <li>Oracle ADF Survival Guide: Mastering the Application Development Framework, Apress; 1st ed. edition (September 4, 2017).</li> </ol>			
Supporting websites	https://www.oracle.com/application-development/technologies/jdeveloper.html			
The physical environment for	□ Class	√ labs	☐ Virtual	☐ Others
teaching	room		educational	
			platform	
Necessary equipment and software	JDeveloper, Oracle XE 11g / MySql Server			
Supporting people with special needs				
For technical support				



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#### 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 development fundamentals, including data structures, algorithms, complexity, multiple programming languages, paradigms, and technologies.	MK4
	Skills	
S1	An ability to use the techniques, skills, and modern tools necessary for software engineering practice.	MS3
	Competences	
C1	Ability to develop software systems in one or more significant application domains.	MC2

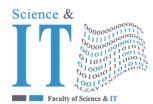
**Mechanisms for direct evaluation of learning outcomes** 

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	The Quick Learner's Guide to Oracle Fusion	Lecture/ learning through	1-44
	Web Application Development	projects	
2	Oracle Application Development Framework	Lecture/ learning through	45-62
	(ADF)	projects	
3	The Oracle ADF and ADF Faces Rich Client	Lecture/ learning through	63-102
	Lifecycle	projects	
4	Introduction to Oracle ADF Task Flows	Lecture/ learning through	103-139
		projects	
5	Working with Unbounded and Bounded Oracle	Lecture/ learning through	141-190
	ADF Task Flows	projects	
6	Working with Bounded Task Flows in ADF	Lecture/ learning through	191-247
	Regions	projects	



13

14

15

**16** 

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413-434

509-535

655-721

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7	Page Nav	igation in Oracle ADF	Lecture/ learning through projects	249-264	
8	Working with Input Components		Lecture/ learning through projects	265-278	
9	Working with Table, Tree, and TreeTable Components		Lecture/ learning through projects	279-343	
10	Working with Menus, Dialogs, and Pop-ups		Lecture/ learning through projects	345-366	
11	Looking Up Data		Lecture/ learning through projects	369-395	
12	Working	with Images and Media	Lecture/ learning through projects	397-411	

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

Lecture/ learning through

Lecture/ learning through

Lecture/ learning through

projects

projects

projects

Visualizing Data with DVT Components

Building Custom Look and Feel with

Cascading Style Sheets and Skinning

Final Exam

Oracle Fusion Web Application Security

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

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

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

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