

جامعة الزيتونة الأردنية Al-Zaytoonah University of Jordan كلية العلوم وتكنولوجيا المعلومات Faculty Of Science & IT



"حيث تصبح الرؤية واقعاً" "When Vision Becomes Reality"

" عراقة وجودة" Tradition and Quality

Detailed Course Description - Course Plan Development and Updating Procedures/ Department of Software Engineering	QF01/0408-3.0E

Faculty	Science & IT	Department	Software-Engineering
Course number	0114482	Course title	Selected Topics in S.E.
Number of credit hours	3	Pre-requisite/co-requisite	0114341

Brief course description

Learn to develop your own apps for your Android device. Let us introduce you to Android app programming by giving you a solid foundation so you can imagine, design, create and deploy your own apps. This class will cover the major Android topics such as Views, Activities, Intents, Broadcast Receivers, and Content Providers. It will also cover Location-based services, Sensors and App Deployment.

Course goals and learning outcomes		
Install and Introduce Android Development Environment		
1.1. Installing and using Android Studio		
1.2. Use the development tools in the Android development environment		
Introduce Major Components of Android API		
2.1. Use the major components of Android API set to develop their own apps		
2.2. Make UI-rich apps using all the major UI components		
Using Java Programing Language and Database in Android Application		
3.1. Use the Java programming language to build Android apps		
3.2. Use SQLite for building local database		
Introduction to Activities, Fragments and Action Bar		
4.1. Describe the life cycles of Activities, Applications and Fragments		
4.2 .Be familiar with new UI components like Fragments and the Action Bar		
Manipulating Data		
5.1. Store and manipulate data using Content Providers, Shared Preferences and		
Notifications		
1. Wei-Meng Lee, Beginning Android TM 4 Application Development (1st		
Edition), Published by John Wiley & Sons, Inc. 2012		
1. Paul Deitel, Harvey M Deitel, Android How to Program (3rd Edition), Prentice Hall; 3 edition (January 22, 2016).		
2. Paul Deitel, Harvey Deitel, Alexander Wald; Android 6 for Programmers:		
An App-Driven Approach (3rd Edition); Prentice Hall; 3 edition (December 14, 2015).		



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Course timeline				
Week	Number of hours	('ourse tonics		Notes
01	1 1 1	Getting started with Android programming	1-33	
02	1 1 1	Activities, Fragments, and Intents	35-103	
03	1 1 1	Understanding Android User Interface	105-156	
04	1 1 1	Designing interface with views(Using Basic Views)	159-177	
05	1 1 1	Designing interface with views(Using Picker Views and List Views to Display Long Lists)	179-191	
06	1 1 1	Designing interface with views (Understanding Specialized Fragments) First Exam (20 %)	191-214	
07	1 1 1	Displaying pictures and menus with views	219-251	
08	1 1	-		
09	1 1 1	Data Persistence(Creating and Using Databases)	273-290	
10	1 1 1	Content Providers	293-321	
11	1 1 1	Messaging(SMS Messaging, Sending E-mail)	321-351	
12	1 1 1	Mini-Project Discussion and Second Exam (20 %)		
13	1 1 1	Location-Based Services		
14	1 1	Networking	393- 429	



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	1			
	1	Developing Android Services	429-463	
15	1			
	1			
	1	Final Exam 50%		
16	1			
	1			

Theoretical course evaluation methods and weight Participation = 10% First exam 20% Second exam 20% Final exam 50% Practical (clin course evaluation methods)	,
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Approved by head of department	Da	te of approval	
department			

Extra information (to be updated every semester by corresponding faculty member)

Name of teacher	Dr. Mohammad Muhairat	Office Number	309
Phone number (extension)	446	Email	drmohairat@zuj.edu.jo
Office hours	9-10		