

" 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
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Faculty	Science & IT	Department	Software-Engineering
Course number	011484	Course title	Mobile Applications Programming
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	
Goal 1	Install and Introduce Android Development Environment
Learning outcomes	1.1. Installing and using Android Studio 1.2. Use the development tools in the Android development environment
Goal 2	Introduce Major Components of Android API
Learning outcomes	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
Goal 3	Using Java Programming Language and Database in Android Application
Learning outcomes	3.1. Use the Java programming language to build Android apps 3.2. Use SQLite for building local database
Goal 4	Introduction to Activities, Fragments and Action Bar
Learning outcomes	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
Goal 5	Manipulating Data
Learning outcomes	5.1. Store and manipulate data using Content Providers, Shared Preferences and Notifications
Textbook	1. Wei-Meng Lee, Beginning Android™ 4 Application Development (1st Edition), Published by John Wiley & Sons, Inc. 2012
Supplementary references	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	Course topics	Pages (textbook)	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 1	Data Persistence(Saving and Loading User Preferences, Persisting Data to Files)	251-273	
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	351-393	
14	1	Networking	393- 429	

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

Theoretical course evaluation methods and weight	Participation = 10% First exam 20% Second exam 20% Final exam 50%	Practical (clinical) course evaluation methods	Semester students' work = 50% (Reports, research, quizzes, etc.) Final exam = 50%
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Approved by head of department		Date of approval	
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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		