



Jordan University of Science and Technology
Faculty of Computer & Information Technology
Computer Science Department

CS411 Mobile Applications Design And Development

Summer Semester 2019-2020

Course Catalog

3 Credit Hours. This course is 3 credit hours. It provides students with a perspective of mobile applications using android with Java language .it discusses user interface development and most used components and layouts such as (List View, Grid View , Custom List View, ...), the activities life cycles and switching between them, in addition to data storage techniques used in Android such as (shared preferences, File system, databases)

Text Book

Title	Android for programmers an App-driven approach
Author(s)	Paul Deitel, Harvey Deitel, Abbey Deitel, Michael morgana
Edition	2nd Edition
Short Name	App-driven approach
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Android Online Course	Google: Android Online Course	Google	1st Edition	

Instructor

Name	Miss Noor Zaghal
Office Location	A1 L3
Office Hours	Sun : 10:00 - 13:00 Mon : 10:00 - 12:30 Tue : 10:00 - 10:15 Wed : 10:00 - 10:15
Email	noorzaghal@just.edu.jo

Class Schedule & Room

Section 1:
 Lecture Time: Sun, Mon, Tue, Wed : 08:30 - 10:00
 Room: منصة الكترونية

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to Android Studio Environment	Ch1 From Android Online Course
Weeks 1, 2	Android Architecture, user interface development	Ch1 From Android Online Course
Weeks 2, 3	Activities and Intents	Ch2 From Android Online Course
Weeks 3, 4	User Input Controls	Ch4 From Android Online Course
Week 4	Drawables, Themes, and Styles	Ch5 From Android Online Course
Week 4	Alarm Managers	Ch8 From Android Online Course
Weeks 5, 6, 7	Overview to Storing Data, SQLite Primer, ContentProviders, Firebase and Admo	Ch9, Ch10, Ch11, & Ch14 From Android Online Course

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Students should be able to design an android program and distinguish the need and the importance for each activity layout in addition how and when to use each. [1SO2]	15%	Programming Assignments, Project, Final Exam
Student should be able to identify the major components of Android API with their related methods and use them to develop android mobile application by applying Java programming concepts and XML [1SO2, 1SO5]	45%	Programming Assignments, Project, Final Exam, Mid Exam
Student will be able to store and manipulate data in the mobile device using Files, shared preferences and SQLite database and recognize the differences between these data storage options [1SO2, 1SO5, 1SO6]	30%	Programming Assignments, Project, Final Exam, Mid Exam
Student will be able to store and manipulate data remotely using the google firebase technology in addition to use google maps, Jason ,... [1SO5]	10%	Project, Final Exam

Relationship to Program Student Outcomes (Out of 100%)

SO1	SO2	SO3	SO4	SO5	SO6
	47.50			42.50	10

Evaluation

Assessment Tool	Weight
Programming Assignments	17%
Project	23%
Final Exam	50%
Mid Exam	10%

Policy	
Participation	You are expected to participate in class. Participation includes asking and answering questions, raising issues, and suggesting solutions to the discussed problems.
Exams	All exams will be CLOSE-BOOK. The format for the exams is generally as follows: multiple-choice, code errors detection , and short essay questions.
Workload	Average work-load student should expect to spend is 5 hours/week.

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