

WORKSPACE WEB DEVELOPMENT & OUTSOURCING TRAINING CENTER

Course Outline (2015)

Android Application Development

Workspace Web Development & Outsourcing Training center

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Course Hours	48
Total days	16
Prerequisite	Minimum Programming Knowledge of JAVA & OOAP
Class day	Normally Thursday/ Friday / Saturday/ Sunday (Normally 2 days per week)

COURSE DESCRIPTION

Android OS has become a must for everyone's life. As a result the field of application development for Android is quite large. With the knowledge of android application development anyone can earn at a fast rate. This course will guide students to learn basic and some hardcore application development skills to become successful in the field of android development.

OBJECTIVES

At the end of the course, the students will be able to:

- Have a knowledge regarding the Android application fields,
- How to create a successful android application,
- Successfully Resource handling,
- Deployment of android application in Google play store,
- Develop skills for large scale works,

TOPICS TO BE COVERED

TOPICS	SPECIFIC OBJECTIVE(S)	TIME FRAME	SUGGESTED ACTIVITIES	TEACHING STRATEGY(S)
Introduction to android development	Informing students about the android development, scopes and current fields.	Week 1	Reading suggested articles, notes.	Lecture notes, question
Android Environment Setup	Setup Android SDK for application development, discuss architecture, activity life cycle and successfully build and run first application	Week 2-3	Lecture, Lab Work and Assignments	Lecture notes, question
Designing Layouts	Different elements, how and when to use them, how to create different activities to display this layouts and communicate between them.	Week 3-4	Homework, Mini-project	Lecture notes, question
Test Project				
Create app with material design	Widgets for cards and lists, custom animations and backward computability issues	Week 5-6	Homework, Mini-project	Lecture notes, question
Handling resources while maintaining application flow	The use of activity life cycle, Service and other essential terms.	Week 7	Lecture, Lab, Live Work	Lecture notes, question
Web service and app deployment	How to communicate with server, different adapters and deployment of that application in Google play store	Week 8	Homework, Lecture, Live Work	Lecture notes, question
Final Project Continues				

COURSE REQUIREMENTS

Student Attendance

All students are expected to attend all scheduled classes, and to read all assigned chapters / materials before coming to class.

Class Participation & Peer Evaluation

You Students are expected to participate actively in the class. Your contribution towards your team will be counted too.

TEXTBOOK/ REFERENCES

- Android Developers; URL: <http://developer.android.com>
- Head First Android Development.(Head First Series)
- Lynda tutorials.
- The New Boston; URL: <https://www.thenewboston.com/videos.php?cat=6>.
- Other Online Recourses.