

## Short Term Courses – NIELIT Delhi Centre

### Mobile application Development using Android with Project

#### Objective of the Course:

Android Application Development course is designed to quickly get you up to speed with writing apps for Android devices. The student will learn the basics of Android platform and get to understand the application lifecycle

#### Learning Outcomes:

By the end of the course, student will be able to write simple GUI applications, use built-in widgets and components, work with the database to store data locally, and much more.

**Duration of the Course**      80 hrs  
**(in hours)**

#### Minimum Eligibility Criteria and Prerequisite, if any:

BE/BTech/Msc(IT/ computer Science / Electronics), MCA, BCA or equivalent of any of these. Degree holders with PGDCA, DOEACC A, B level, Diploma Computer Sc, Electronics, or others with relevant experience and final year students also may apply.

#### Outline of Course

S. No	Topic	Hours
1.	Programming Revision (Object Oriented Programming Concepts & Java Fundamental)	10 hrs
2.	Android : Activities , Content Providers, Intents , Services, Storage, Network, Multimedia , GPS , Phone Services , XML Layouts , widgets, permission , Sensor Manager-Accelerometer, gyroscope etc.	25 hrs
3.	Threads, Animation, Refresher handler, Game Engine, Animated 2D Games, Google Play Store and Lot more	15 hrs
4.	Basics of Data Base, Introduction to SQ Lite and CRUD operations	10 hrs
5.	Project: Data base Application Development using SQ Lite, Client Server Application Development Using JSON for mobile Devices	20 hrs
	Theory / Lecture Hours	30 hrs
	Practical / Tutorial / Lecture Hours	30 hrs
	Total Hours	80 hrs

#### Books Recommended for Reading and Reference:

1. Sam's Teach yourself Android Application Development ( 24 Hours)
2. Professional Android 4 Application Development
3. Android Programming for Beginners