

**Duration**  
**2 month**  
**Rs. 8000+Tax**  
**Only Weekend**



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# Lara Technologies

## JAVA / J2EE Training Division

### Android Course Content

#### Level 1

##### 1.Intro to Android

Vision of Android  
History overview  
Android versions  
OEM customizations

##### 2.The Android Stack

Design philosophy  
Open Source licenses  
Linux kernel space  
Native layer  
Dalvik VM

##### 3.Sample App

Android SDK:  
How to set it up and what it consists of  
About Eclipse:  
The power of the tools  
Creating a new Android project  
Manifest File  
Running the app:  
Emulator, real device,  
tools to monitor them both  
Manifest File

##### 4.Main Building Blocks

Activities  
Fragments  
Intents  
Services  
Content Providers  
Broadcast Receivers

##### 5.Android UI

Structure of UI: Views and Layouts  
Main UI Elements  
Form widgets  
Text Fields  
Layouts  
Menus  
Dialogs

##### 6.Resources

Two ways to create Android UI  
Main view properties  
Localization of UI  
Handling UI events  
Overview of Android Resources  
Values  
Layouts  
Drawables  
Creating Resources  
Using Resources

##### 7.Activities

Overview of Activity  
Activity lifecycle  
Creating an Activity

##### 8.Intents

Overview of Intents  
Types of Intents  
Creating an Intent  
Intent Filters  
Using Intents and Intent Filters

##### 9.Services

Overview of Android services  
Service lifecycle  
Declaring a service  
Registering a service  
Starting and stopping a service  
System Services

##### 10.Preferences

Overview of preferences  
Preference resource  
Preference activity  
Reading in the preference values  
Programmatically editing the shared preferences  
Registering for preference changes via a listener

##### 11.Broadcast Receivers

Broadcast receiver usage patterns  
Implementing a broadcast receiver  
Registering a broadcast receiver via the manifest file  
Registering a broadcast receiver programmatically

##### 12. Content Providers

Why content providers  
Creating a content provider  
Using existing content providers

##### 13. Debugging and Testing Android Apps

Logcat  
Debugger

#### Level 2 (Advanced)

##### 1.Maps, LBS and Sensors

Android Google Maps V2  
GPS,Location based Services  
Android Sensors

##### 2.Connectivity and Data Management

Network connectivity services  
XML Parsing  
JSON Parsing

##### 3.Database

Introduction to SQLite  
SQLiteOpenHelper and creating a database  
Opening and Closing SQLiteDatabase  
Cursors, Query, Insert, Update & Delete

##### 4.Security

Security design overview  
Application sandboxing  
Using permissions  
Declaring permissions

##### 5. Lists and Adapters

Overview of selection widgets  
Working with lists  
Working with adapters  
Implementing a list view and connecting it with an adapter

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