



Session -1:

Introduction to Android
A little Background about mobile technologies
Overview of Android - An Open Platform for Mobile development
Open Handset Alliance
What does Android run On – Android Internals?
Why to use Android for mobile development?

Session – 2:

Developing for Android: My First Android Application
How to setup Android Development Environment.
Android development Framework - Android-SDK, Eclipse
Emulators – What is an Emulator / Android AVD ?
Creating & setting up custom Android emulator
Android Project Framework
My First Android Application

Session – 3:

Android Activities and UI Design
Understanding Intent, Activity, Activity Lifecycle and Manifest
Creating Application and new Activities
Expressions and Flow control, Android Manifest
Simple UI -Layouts and Layout properties
Fundamental Android UI Design

Session – 4 :

Introducing Layouts
Creating new Layouts
Drawable Resources
Resolution and density independence (px,dip,dp,sip,sp)
XML Introduction to GUI objects viz.
Push Button
Text / Labels
EditText
ToggleButton
WeightSum
Padding
Layout Weight.

Session – 5 :

Advanced UI Programming
Event driven Programming in Android (Text Edit, Button clicked etc.)



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Creating a splash screen
Event driven Programming in Android
Android Activity Lifecycle
Creating threads for gaming requirement
Understanding the Exception handler

Session – 6:

Toast, Menu, Dialog, List and Adapters
What is Menu?
Custom Vs. System Menus
Creating and Using Handset menu Button (Hardware)
What are Android Themes. What is Dialog? How to create an Alter Dialog?
What is Toast in Android?
List & Adapters
Manifest.xml File Update

Session – 7:

Database - SQLite
IntroducingSQLite
SQLiteOpenHelper and creating a database
Opening and closing a database
Working with cursors Inserts, updates, and deletes

Session – 8:

Multimedia Programming using Android
Multimedia audio formats - Creating and Playing
Multimedia audio formats - Kill / Releasing (Memory Management)
How to associate audio in any application
How to associate video playback with an event

Session – 9 :

Location Based Services and Google Maps
Using Location Based Services
Working with Google Maps