



**ANDROID**

APP DEVELOPMENT

**Certificate Course**

**ANDROID**

**Course Contents**

**Summer Training 2019**

### **Introduction to Android**

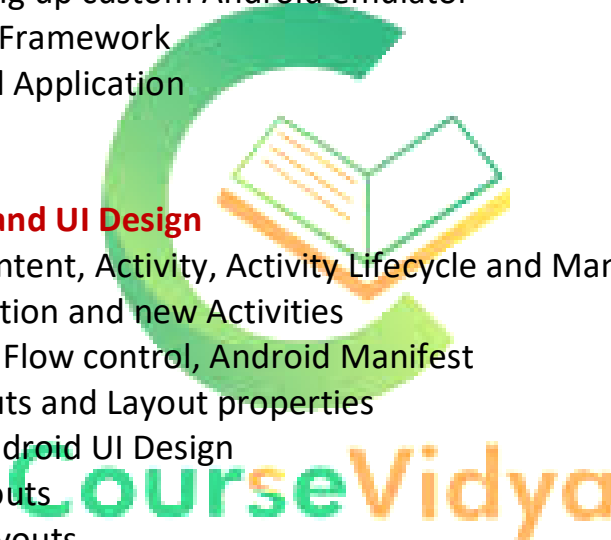
- A little Background about mobile technologies
- Overview of Android - An Open Platform for Mobile development
- Open Handset Alliance
- What does Android run On – Android Internals?
- Why to use Android for mobile development?

### **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

### **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
- Introducing Layouts
- Creating new Layouts
- Drawable Resources
- Resolution and density independence (px,dip,dp,sip,sp)



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### **XML Introduction to GUI objects viz**

- Push Button
- Text / Labels
- EditText
- ToggleButton
- WeightSum
- Padding
- Layout Weight

### **Advanced UI Programming**

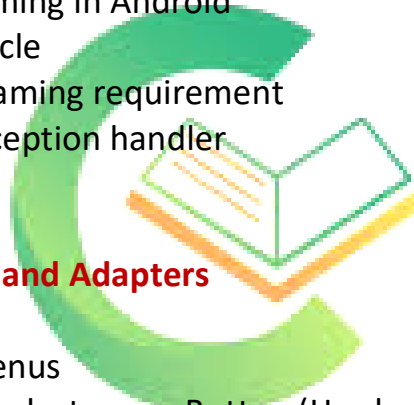
- Event driven Programming in Android (Text Edit, Button clicked etc.)
- Creating a splash screen
- Event driven Programming in Android
- Android Activity Lifecycle
- Creating threads for gaming requirement
- Understanding the Exception handler

### **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

### **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



### Database - SQLite

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

### Location Based Services and Google Maps

- Using Location Based Services
- Working with Google Maps

### Notifications

- Notification Manager
- Pending Intent
- Notifications (Show and Cancel)

### How to develop your own custom made Web browser

- How to use WebView object in XML
- Permission for using the Internet
- Methods for associated with 'Go', 'Back', 'Forward' etc.

### Android Development using other Tools

- Other ways to Develop Android Applications
- Graphics / Game development using Adobe CS5.5 Flash
- How to render .apk file from Adobe Flash



### Testing and Debugging Android Application

- Role and Use of Dalvik Debug Monitor Server (DDMS)
- How to debug android application
- Use of Step Filters, Breakpoints, Suspend and Resume
- How to use LogCat (Verbose, Debug, Info, Warn, Error, Assert)
- Use of Perspectives

### Installation of.apk

How to install.apk into your Android Mobile.



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- Core Python with Django
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