

**Advance Your Career**  
Become Job ready  
in 3-5 months

# Android Application Development



## What is Android Application Development?

Android adapts to you and how you use your phone, learning your preferences as you go.

## What They Do?

Include implementing and enhancing the .Android mobile application alongside a team of world class developers designers and software architects.

## Why Android Application Development?

Demand for skilled professional in this area will continue to grow over next 7 years.



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# Android Application Development – Career Track

## Level 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?

### 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 Application 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
- Fundamentals Android
- UI Design Introducing Layouts
- Crating new Layouts
- Drawable Resources
- Resolution and density independance(px,dip,dp,sip,sp)
- XML Introduction to GUI objects viz
- Push Button
- Text / Labels
- EditText
- ToggleButton
- WeightSum
- Layout Weight



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# Level 1

## 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 SQL Lite

- Introducing SQL Lite
- SQL liteOpenHelper and creating a database
- Opening and closing a database
- Working with cursors Inserts, updates, and deletes



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## Level 2

### Kotlin Programming

- Introduction to Kotlin programming
- Benefits of Kotlin
- Variables in Kotlin
- Logics, loops and breaks

### Location Based Services and Google Maps

- Using Location Based Services
- Working with Google Maps

### Notification

- 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.



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## Level 2

### 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

### Capstone Project

This is the flagship project developed by student under the guidance of experienced faculty

- Student will select practical real life project from the list of proposed projects
- Develop requirements and design for the application
- Develop the logic and the backend
- Test the application
- Review of the application by expert panel
- Refine the application & publish

Check with our student counsellor for the next batch & enrol today



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