

Android Development

Course Description:

This course introduces mobile application development for the Android platform. Lecture slides, labs, syllabus, and course assignments will be provided. Individual and small team assignments encompass a course-long, student-conceived Android app.

Pre-requisite:

Greater part of Android application development is carried out in Java and our Android Training Course focuses on Java based application development. Basic Java programming skills are required.

Course Duration: 2 Months

Course outline

- Overview of Android and Android SDK
- History of Android
- Android Architecture overview
- Setup of Android Development environment
- Eclipse/Android Studio installation and overview
- Creating first Android application
- Project Structure
- Android Application Fundamentals
- Android application building blocks
- Life Cycle of Application
- Development tools, Manifest File
- Lifecycle of Activity
- User Interface
- Layouts
- UI Events

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- Dialog Boxes
 - Toasts
 - Graphics & Animations
 - Main Building Blocks
 - Activity
 - Intents
 - Drawable Resources
 - Animation Resources
 - Data Storage
 - Shared Preferences
 - SQLite Databases
 - Playing audio/video
 - Media recording
 - Web view
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- Other/Optional Features
 - Bluetooth
 - WiFi
 - Camera
 - Telephony Manager
 - Location Services
 - Deploying Android Application on Device