

Module: 1 Introduction to Android

- The Android family
- Overview of Android and Android SDK
- History of Android
- Android features

Module: 2 Android Architecture overview

- Introduction to OS layers
- Linux kernel
- Libraries
- Android Runtime
- Application framework

Module: 3 Setup of Android Development environment

- System requirements
- Eclipse and SDK installation, AVD creation
- Creating first Android application
- Project Structure

Module: 4 Android Application Fundamentals

- Android application building blocks
- Activating components
- Shutting down components
- Life Cycle of Application
- Development tools, Manifest File
- Life Cycle of Activity

Module: 5 User Interface

- View Hierarchy and Layouts
- UI Events
- Building Menus
- Notifying users
- Creating dialogs
- Graphics & Animations

Module: 6 Main Building Blocks

- Activity
- Services
- Content Providers
- Broadcast Receivers

Module: 7 Resources

- Overview of Android Resources
- Creating Resources
- Using Resources
- Drawable Resources
- Animation Resources

Module: 8 Data Storage

- Shared Preferences
- Internal Storage (Files)
- External Storage(SD Card)
- SQLite Databases

Module: 9 Android Media API

- Playing audio/video
- Media recording
- Blue tooth
- WiFi
- Camera
- TelephonyManager
- Location Services
- Google Maps
- Deploying Android Application on Device