



COVERAGE

- Android Overview and History
- Android Architecture
- Designing The User Interface
- Activity
- Intent
- Service
- Broadcast Receiver
- Content Provider
- Multimedia in Android
- Files
- SQLite database
- Telephony and SMS API
- Networking
- Maps, Geocoding and Location-Based
- Services
- Phone Gap
- Android Overview and History
- What is Android?
- Importance of Android
- Version History
- Android Architecture
- Install Android Studio
- Android Emulator
- Android Building Blocks
- Activities
- Services
- Content Providers
- Broadcast Receivers

SYLLABUS IN DETAILS

Developing and Running Android Application

- Hello World App
- Project structure
- The manifest file
- Layout resource
- Running your app on Emulator and Device

Designing the User Interface

- Form widget
- Spinner
- List View
- Gallery
- Auto complete Text View
- Selection components
- Adapters
- Complex UI components
- Building UI for performance
- Menus and Dialogs
- Graphics & animations
- Web View
- Intent
- Introduction
- Implicit Intent
- Explicit Intent
- Phone call
- Send SMS
- Capture Image
- Audio Recording
- Video Recording
- Returning Results from Activities

Files

- Shared preference
- Internal Storage
- External Storage

SQLite database

- Introduction to SQLite
- Opening and closing a database
- Creating tables
- Cursor
- CRUD Operation

Telephony and SMS API

- SMS
- Calls
- Emails
- Email using Java Mail API

Maps, Geocoding and Location Based

Services

- Introduction to Google Maps
- MapView
- MapFragment
- Markers
- Get Google Places API Access
- List of search options to get data (like hospital, school, etc...)

Phone Gap

- Introduction Apache Cordova Phone Gap
- Advantages of Phone Gap

- Phone Gap Components
- How to setup Phone Gap Environment
- Sample projects on Phone Gap

Android Layout Design

- Linear Layout
- Relative Layout
- Grid Layout
- Frame Layout
- Table layout
- Fragment

Android Services

- Introduction
- Started Service
- Bind Service
- Assignment

Networking

- Connecting to an Internet Resource
- Parsing XML Using the XML Parser
- Downloading files
- Internet Services

Content Providers

- Registering Content Providers
- Publishing Your Content Provider's URI Address
- Creating the Content Provider's Database
- Implementing Content Provider Queries
- Content Provider Transactions
- Storing Files in a Content Provider

Animation

- Tweened View Animations
- Creating Tweened View Animations
- Applying Tweened Animations
- Using Animation Listeners
- Animating Layouts and View Groups
- Creating and Using Frame-by-Frame Animations
- Interpolated Property Animations
- Property Animations
- Property Animation Sets
- Animation Listeners