



ANDROID SYLLABUS

➤ Basics of Android

- What is Android
- History and Version
- Installing softwares
- Setup Eclipse
- Hello Android example
- Internal Details
- Dalvik VM
- Software Stack
- Android Core Building Blocks
- Android Emulator
- AndroidManifest.xml
- R.java file
- Hide Title Bar
- Screen Orientation

➤ UI Widgets

- Working with Button
- Custom Toast
- Button
- Toggle Button
- Switch Button
- Image Button
- CheckBox
- AlertDialog
- Spinner
- AutoCompleteTextView
- RatingBar
- DatePicker
- Time Picker

- ProgressBar
- Quick Contact Budge
- Analog Clock and Digital Clock
- Working with hardware Button
- File Download

➤ Activity, Intent & Fragment

- Activity Lifecycle
- Activity Example
- Implicit Intent
- Explicit Intent
- Fragment Lifecycle
- Fragment Example
- Dynamic Fragment

➤ Android Menu

- Option Menu
- Context Menu
- Popup Menu

➤ Layout Manager

- Relative Layout
- Linear Layout
- Table Layout
- Grid Layout

➤ Adaptor

- Array Adaptor
- ArrayList Adaptor
- Base Adaptor

➤ View

- GridView



- WebView
- ScrollView
- SearchView
- Tab Host
- DynamicListView
- ExpandedListView
- **Android Service**
 - Android Service
 - Android Service API
 - Android Started Service
 - Android Bound Service
 - Android Service Life Cycle
 - Android Service Example
- **Data Storage**
 - Shared Preferences
 - Internal Storage
 - External Storage
- **SQLite**
 - SQLite API
 - SQLite Spinner
 - SQLite ListView
- **JSON**
 - JSON Parsing
- **Multimedia**
 - Wallpaper
 - Live Wallpaper
 - Multimedia API
 - Playing Audio
 - Creating Audio Player
 - Playing Video
- Alarm Manager
- Gallery
- **Speech API**
 - Text to Speech API
 - Text to Speech Example
 - Managing speed and pitch
 - Speech To Text
- **Telephony API**
 - Telephony Manager
 - Get Call State
 - Call State BroadcastReceiver
 - Simple Caller Talker
 - Making Phone Call
 - Send SMS
 - Send Email
- **Location API**
 - Location API Fundamental
 - Example of Android Location API
 - Working with Google Maps
- **Animation**
 - Android Animation API
 - Android Drawable class
 - Android Animation Example
 - Android Rotate Animation
 - Android Fade Animation
 - Android Zoom Animation
- **Device Connectivity**
 - Bluetooth Tutorial
 - List Paired Devices
 - Working with WiFi



- Working with Camera
- **Sensor**
 - Sensor API
 - Motion Sensor
 - Position Sensor
 - Environmental Sensor
 - Sensor Values
 - SensorManager class
 - Sensor Class
 - SensorEvent class
 - SensorEventListener interface
 - Compass Accelerometer and Orientation Sensors
 - Sensor Examples
- **Android Graphics**
 - Graphics API
 - 2D Graphics
 - android.graphics.Canvas
 - android.graphics.Paint class
- **Android Google Map**
 - Android Map V2 API
 - Adding Map
 - Customizing Map
 - GoogleMap class
 - Android Google Map Application
- **Android Web Services**
 - Soap Vs Restful web service
 - Android Restful web service example with php
 - Storing data on Sever
- **Content Provider**
 - Content Provider Fundamental
 - Contact Content Provider
 - Other Built-in Content Providers
 - Creating Custom Content Provider
 - Understanding Content URI
 - Content Resolver
 - Sharing Information from custom content provider
- **Project Development**
 - E-COMMERCE APP
 - Search Engine (Just Dial)
 - Real Time Track
 - Indoor Tracking (Basement, Malls)
 - Cab Booking
 - Traveling