

Android Syllabus

Basics of Android

What is Android
History and Version
Installing soft wares
Setup Android Studio
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

Android Components

Activity
Service
Broadcast Receiver
Content Providers
UI Widgets

AutoCompleteTextView

RatingBar
DatePicker
TimePicker
ProgressBar

Advance Android

Android Service
Android Service API
Android Started Service
Android Bound Service
Android Service Life Cycle
Android Service Example

Working with Button

Toast
Custom Toast
Button
Toggle Button
Image Button
CheckBox
AlertDialog
Spinner

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



SmartBit Infotech, Pune

www.smartbitinfotech.in

Android Syllabus

Data Storage

Shared Preferences
Internal Storage
External Storage
SQLite
SQLite API
SQLite Spinner
SQLite ListView
JSON & XML
JSON Parsing
XML Parsing

Content Provider

Content Provider Fundamental
Contact Content Provider
Other Built-in Content Providers
Creating Custom Content Provider
Understanding Content URI
ContentResolver
Sharing Information from custom content provider

Android Notification

Notification API
Creating Notification Builder
Setting Notification Properties
Attaching Actions
Issuing Notification
NotificationCompat.Builder class
Android Notification Examples
Push Notifications using GCM

Multimedia

Multimedia API
Playing Audio
Creating Audio Player
Playing Video
Alarm Manager
Gallery
Speech API
TextToSpeech API

TextToSpeech Example
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

Android Map V2 API
Adding Map
Customizing Map
GoogleMap class
Android Google Map Application

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

Android Web Services

What is web service
Soap Vs Restful web service
Android Restful web service example with java
servlet Storing data into external oracle database
Verifying data in android with external oracle
database Volley Library



Android Syllabus

Integration

Firestore Integration
Social API Integrations
Facebook Integration
Google plus Integration
Twitter Integration
Ad Mob Integration

Material Design Basic Concepts

Floating Labels
Floating Action Buttons
Card Views
Navigation Drawer Using Material Design
Recyclerview
Snackbar