



android

**COURSE**  
**CURRICULUM**



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## JavaScript

- Working with Variables
- Access specifiers, final, static Working with String and String Builders
- Using relational and conditional operators
- Creating if and if/else constructs
- Using a switch statement
- Using for, while, do-while, for each
- Practicing pattern programs
- Methods
- Constructors
- One-dimensional Array and Two-dimensional Array
- OOPs Concept ( Inheritance, Polymorphism )
- Handling Errors using try-catch
- Collection Frameworks
- Working with Models

## Android Features

Learn to store and read data within Android device. Managing device from computer. Learn New features in new versions of Android like Runtime Permission(Marshmallow), Notifications with Direct reply(Nougat),Picture-in-picture Support(Oreo).

## Networking

Accessing data from HTTP Server. Sending data to and from server. Working with REST API Service sending a request and fetching a response, Loading image from online source. Connect to Social Applications- Facebook, LinkedIn etc.

## Advance Topics

Learn sending data from bluetooth, Scanning and connecting to WiFi networks. Create a simple Android game, Handling SMS and Calling, Creating widgets at home screen.

## Using Google and Firebase Services

3rd Party SDK Integration, Showing Maps and managing location and navigation. Sending notification to device, Adding ADS to mobile apps. Publishing app to Google Play Store.

## Introducing the Android

- Android Market
- Why Java for Android?
- Android versions and Architecture
- Android Studio
- Project Structure, Gradle, Android Manifest
- Using Emulator

## Activity

- Activity Life Cycle
- XML Layout & View (Button, EditText, RadioButton etc)
- Parent Layouts
- Adding views dynamically
- Custom Views
- Toast, Custom Toast and Snackbar

## Intent and Intent Filters

- Implicit and Explicit Intents
- Working Implicit Intents
- Activity Result
- Run time permissions in Marshmallow

## Resources

- Assets
- Drawables, Shapes and Selector
- Image and Vector assets
- Theme and Color

## Debugging App

- LogCat
- Debugger & Exception Handling

## Lists and Adapters

- Array Adapter and Simple Cursor Adapter
- List View, Grid View, RecyclerView
- Custom List, Event handling

## Data Storage

Services and Intent Services, Scheduling Task, Creating alarm clock app, Handler and Thread, Async Task

## Broadcast Receivers

Handling System broadcast, Handling Custom broadcast, Anonymous broadcast Receivers

## Dialogs

Alert Dialogs, Custom Dialogs

## Material Design

Material Theme, Toolbar and AppCompatActivity Floating Button, Card View, Shadows, Animations

## Menus and Navigation

Events on Menu

Navigation Drawer and Custom Drawer

## Multimedia

Audio Playback Audio Streaming Video Playback

## Accessing Hardwares

Wifi, Bluetooth, GPS

Accelerometer & Gyroscope

Light Sensor

## Graphics

2D graphics

Live Wallpaper

Writing an Android Gamer

## Fragments

Fragments Life Cycle, Dynamic UI with fragments, Using Callbacks, Handling BackStack, ViewPager, Tabs Activity, SMS and Calling, Notification, Widgets

## Web Services

Using GET and POST Method JSON Parsing Using Volley, Picasso Library

## Google Services

Google Maps and Navigation Firebase Cloud Messaging- Push Notification

Admob Ads Integration

## Publishing on Google Play Store



## LEARNERS SPEAK



Vishy Gulia

A good scope of learning and training is provided by them. I appreciate it

Anoop Nandakumar

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