



Android Application **DEVELOPMENT**

Learn to make the best apps

Android Training Course

Introduction to Android - 1 week

Introduction to Android

Introduction of Students

Career in Android

Working on Project and Assignment

Using Lab

Fundamentals of Android - 1 Week

- Software Engineering with SDLC
- Use Case
- DFD
- Flowchart
- SQL Database

Android OS - 1 Week

- Introduction to Android
- Android System with Architecture

- Android Architecture
- Development with Android – Platforms, Tools
- Versions
- Setup Android Environment
- Say Hello to Android Application
- Building Blocks of Android Application
- Work with Activity
- Activity Lifecycle
- Intents
- Fragments
- Fragment Lifecycle

Android UI And Component Using Fragments - 2 Week

- Create Android UI
- Working with Layouts
- Linear Layout
- Relative Layout
- Table Layout
- Grid Layout
- Create Custom Layouts
- Work with UI Components and Events
- Text View
- Edit Text
- Validate Data
- Button
- Checkbox
- Radio and Radio Group
- Rating Bar

- Progress Bar
- Seek Bar
- Web View
- Material Design Toolbar, Tab Layout
- Recycler View and Card View
- Butter knife
- Android Annotations

Database Connectivity - 1 Week

- Storage in Android
- Shared Preferences
- Shared Preferences Layout
- Android Requesting Permission at run time(Android 6.0)
- Work with SD Card and Files
- Database in Android
- Introduction to SQLite
- SQLiteOpenHelper Class
- Create, Open and Close Database
- Database Insert, Update, Delete
- Read Data with Cursor
- Realm-No SQL Database

Android Industry Real Time Project Implementation - 8 Week

- Web Services and Parsing
- XML Parsing
- DOM Parsing
- SAX Parsing

- Pull Parsing
- JSON Parsing
- Access web data with JSON
- Connect to Web Services
- Using Async Task
- Third Party Libraries
 - OkHttp
 - Retrofit
 - Glide
 - Picasso – 2
- MySQL connectivity using JavaOR
- MySQL connectivity using PHP
- Web Service Connectivity

Advance Android Development - 2 Week

- Google Map, Location Service, and GPS
- Creating a Google Map
- Work with Location
- Location service with Location Manager
- Find Current Location
- Geocoding
- Graphics and Animation
- Work with 2D Graphics
- Bitmap
- Animation
- Frame Animation
- Tween Animation
- View Animation

- Multimedia in Android
- Play Audio Files
- Play Video Files
- Work in Background
- Services
- Notification Services
- Broadcast Receiver
- What are broadcast Receivers?
- Work with a broadcast receiver

Firebase

- FCM(Firebase Cloud Messaging)
- Social Media Integration
- Android App links Assistant

Android Live Project - 8 Week

- Work with Android System
- Wake Lock
- Text to Speech
- Camera
- Taking Picture with Camera
- Bluetooth and Wi-Fi
- Manage Bluetooth Connection
- Monitor and Manage Wi-Fi
- Sensor
- Understanding Sensor
- Access Sensors
- Development and Deployment
- Dalvik Debug Tool

- Logcat
- Emulator Control
- Device Control
- Work with ADB
- Connect Real Devices
- Execute Application on Real Device
- Publish your Application



CONTACT US!

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