



## Android Development Training Course content

### **Core JAVA:**

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#### **Module 1: Introduction to JAVA**

**Session 1:** Getting started with java data types, Variables and Operators.

**Session 2:** Java conditional Statements and looping Statements.

**Session 3:** Java User Defined Methods.

**Session 4:** Introduction to Object Oriented Programming, Object and class.

**Session 5:** Constructors, Inheritance, Abstraction, Polymorphism.

**Session 6:** Java Strings and Arrays.

**Session 7:** Java Exception Handling.

**Session 8:** Java Collections and inner classes.

### **Android App Development**

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#### **Module 2: Introduction to Android App Development.**

**Session 9:** Getting started with Android, Preparing android studio, Building the project, Android UI types, Life cycle phases.

**Session 10:** Working with Layouts and intents. Constraint layout, linear layout, relational layout, table layout.

**Session 11:** Working with Views, List View, Grid View, Card View, Recycle view

**Session 12:** Working with Activity and Fragments. Working with Activity life cycle and Fragments.

**Session 13:** Working with Images and sound. Adding Sound, Loading sounds, Playing sounds, Unloading sounds. Implement image in the app.

**Session 14:** Implementing video in App, Loading video, implementing video controls in Android App.

**Session 15:** Google Maps. Implementing the Google API's in Android Apps.

**Session 16:** Working with Menus and tool bar, Option Menu, Context menu, tool bar customization.



**Session 17:** Introduction to SQLite Database Integrating the SQLite to Android App

**Session 18:** Working with SQLite DatabasesAdvanced SQLite implementation to Android App.

**Session 19:** introduction to JSON and Firebase.Working with Firebase.

**Session 20:** Firebase as backend for Android.Send, Retrieve data from firebase.