

Module 1 – Fundamentals – 4500 INR Advance

- Software Engineering
- SQL Queries
- Basics of Designing

Module 2 – Learning the Language (Java)

Introduction to Java

Bytecodes and Java Virtual Machine

[Applications and Applets](#)

Java Development Kit

Loops

Conditionals

Classes and Objects

Encapsulation

Constructors

Inheritance

Method Overriding

Polymorphism

Multitasking

Multithreading

Module 3 – Android OS

Introducing Development Framework

Dalvik Virtual Machine – DVM

Android Virtual Device and SDK Manager

Android Architecture and OOPS

Android Development Tools

Android Asset Packaging Tool (AAPT)

Android Debug Bridge

Types of Android Applications

Android Architecture and OOPS

Activity Lifecycle

Activity Classes

Introduction to Application Manifest

Installing Android

Component Lifecycle

Module 4 – Building Mobile Applications with Android

- Android Layouts
- Android UI and Advance Java
- Android GUI Architecture
- Layouts
- Android Widget Toolbox
- WebView
- GridView
- Using Wake Locks
- Android Text To Speech
- Interprocess Communication
- Paranoid Android
- Internet Services
- Broadcast receivers
- XML Parsing
- Dom Parsing
- SAX Parsing
- JSON Parsing
- SQLite Databases
- Services and Content Providers
- Introduction to Android NDK

Module 5 – Database Connectivity – 4500 INR

- SQLite Database
 - » SQLite Data Types
 - » Cursors and Content Values
 - » SQLite Open Helper
 - » Adding, Updating and Deleting Content

Module 6 – Applicability to Industrial Projects

- Project Scope
- Database Dictionary
- Flow Chart
- High Level Requirements
- Using Bluetooth and NFC in Android device
- Localization in Android
- Configuration changes.
- Security and permissions
- Web Services Integration
- Deployment