

# TIB ACADEMY

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#### Quick Contact



Second Floor and Third Floor, 5/3 BEML Layout, Varathur Main Road, Kundalahalli Gate, Bengaluru, Karnataka 560066

[www.traininginbangalore.com](http://www.traininginbangalore.com)



[info@tibacademy.com](mailto:info@tibacademy.com)

+91 9513332306



## **Introduction**

- Android – What it is?
- History of Android
- Importance of Java language for Android Apps
- Other mobile OS-es
- Android Versions & different development tools

## **Java Fundamentals**

- OOPS basics
- Classes & Objects
- Components of a Class
- Structure of a Class & Java File
- Inheritance
- Interfaces
- Abstract Class
- Polymorphism
- Overloading





## **Android Architecture**

### **Significance of Android Project Structure**

- Source Folder
- Generated Folder
- Assets folder
- Resources folder
- Android Manifest XML

### **Android Application Components**

- Activities & Fragments
- Activity Life Cycle
- Activity – How to create your activity

### **Android Layouts**

- Layout XML files
- Absolute Layout
- Relative Layout
- Linear Layout
- Frame Layout
- Tab Layout
- Table Layout
- List Layout (List View)





## **Android Views & Widgets**

- Button View
- EditText View
- TextView View
- Image View
- Spinner

## **Menus & Messages**

- Adding option menus
- Adding popup menus
- Showing dialogs
- Raising toasts

## **Intent & Intent Filters**

- Intents – How and When to use them
- Intent Objects – Action, Data & Category
- Intent Filters – Matching Rules / Tests
- Explicit Intent & Implicit Intent

## **Services**

Lifecycle of a Service

When to use Services

Main Application Threads & Worker Threads

Intent Service





- Broadcast Receivers
- Listening for specified broadcasts
- System broadcasts
- Custom & User defined broadcasts
- Sticky Broadcasts
- Pending Intents

## **SQLite**

- Introducing SQLite
- SQLiteOpenHelper and creating a database
- Opening and closing a database
- Working with cursors
- Inserts, updates, and deletes

## **External Database Communication**

- Introduction to JSON file formats
- Using Web Services to connect to remote DB
- Significance of AsyncTask class
- Use JSON for data communication to Web Services
- Fetching data from JSON & loading into Activities





## Other Activities

### Assessments

- **Objective Assessments**

- Syntactical based
- Scenario based

*Note: At least 2 objective based assessments in each module*

- **Hands On – Practical Assessments**

- Scenario based

*Note: At least 2 Hands on assessments in each module*

### Assignments

- **Hands On – Practical Assignments**

*Note: At least 4 Hands on assignments in each module*

### Tasks – Home Work

- **Regular tasks on each module**

*Note: Tasks are focused more to improve self learning*

### Resume Support & Interview Preparation

- **Work on one or two mini projects**
- **Discuss and convert the current working project into Android project to add in resume & to explain Android experience in interviews**