

# Android Application Course Details

By [Besant Technologies](#)

Course Name	Android Application Development
Category	Mobile Application Development
Venue	Besant Technologies
Address	No.24, Nagendra Nagar, Velachery Main Road, Velachery, Chennai – 600 042 Landmark – Opposite to Phoenix Market City
Official URL	<a href="#">Android Training</a>
Demo Classes	At Your Convenience
Training Methodology	20% Theory & 80% Practical
Course Duration	25-30 Hours
Class Availability	Weekdays & Weekends
For Demo Class	Call - +91-996 252 8293 / 94 Email ID – <a href="mailto:besanttech@gmail.com">besanttech@gmail.com</a>

## Why Besant Technologies?

- Training by highly experienced and certified professionals
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## Android Training Outline

### **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
- Overriding
- 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**

- 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

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