

Get Started with **Android Development**



Detailed
Course Syllabus

1. Introduction to Android

- a. The Android Ecosystem
- b. Android platform architecture
- c. Android Versions
- d. Challenges of Android app development
- e. App fundamentals

2. Installation Of Android Studio

- a. Android Studio
- b. Creating "Hello World" app in Android Studio
- c. Basic app development workflow with Android Studio
- d. Running apps on virtual and physical devices
- e. Project 1: Hello World

3. Project Structure

- a. Introduction to Android Manifest File
- b. Concept Of Permissions
- c. Localization Of Android App

4. View Groups : I

- a. Linear
- b. Relative
- c. Absolute

5. View : I

- a. Introduction to View Group Class
- b. Introduction to View Class
- c. View Attributes
- d. Android UI Elements

- e. TextView,EditText,Button,Image
- f. Radio Button and Checkboxes

6. Activity in Android

- a. Concept of Activity
- b. Activity Life-Cycle
- c. Methods of Activity Life-Cycle
- d. Configuring Manifest File
- e. Concept of Toast
- f. Project 3: Toast and Flashlight

7. Accessing Res in Java

- a. Concept of Onclick Listeners
- b. Project 4: Building a Working Calculator

8. Concept Of Adapters & View : II

- a. Adapters
- b. Types of Adapters
- c. List View
- d. Steps to implement List View

9. Intents & Types Of Intent

- a. Intents
- b. Types of Intents
- c. Passing Data
- d. Project 5: Login/SignUp Form

10. Data Storage

- a. Shared Preferences
 - i. Introduction to Data Storage
 - ii. Internal And External Storage

- iii. Shared Preferences
- iv. Shared Preferences V's Saved Instance State
- v. Modes and Creation of Shared Preferences
- vi. Methods In Shared preference
- b.** Internal and External Storage
 - i. Introduction
 - ii. External Storage
 - iii. Internal Storage
 - iv. Modes of Storage
- c.** Project 6: Currency Converter

11. Database Storage: SQLite - 1

- a.** Introduction
- b.** SQLiteOpenHelper Class
- c.** Saving & Fetching of Data
- d.** Project 7: To-Do List

12. Concept Of Services

- a.** Services In Android
- b.** Thread Vs Service
- c.** Types of Services
- d.** Lifecycle of a Service
- e.** Methods and Description of a Service

13. ANR & Use of Threads in Android

- a.** Async Task
- b.** Offline Async Task
- c.** Online API Based Async Task

14. Project 8

Music Player