Adani Institute of Infrastructure

Management • Engineering

ANDROID APPS DEVELOPMENT COURSE CONTENT

1. **INTRODUCTION TO ANDROID**

   - Overview of Android and Android SDK
   - History of Android
   - Android Features

2. **ANDROID ARCHITECTURE OVERVIEW**

   - Introduction to OS Layers
   - Linux Kernel
   - Libraries
   - Android Runtime
   - Application Framework

3. **SETUP OF ANDROID DEVELOPMENT ENVIRONMENT**

   - System Requirements
   - Eclipse and SDK installation,
   - AVD creation
   - Creating first Android Application
   - Project Structure

4. **ANDROID APPLICATION FUNDAMENTALS**

   - Android Application Building Blocks
   - Activating Components
   - Shutting Down components
   - Lifecycle of Application
   - Development tools, Manifest File
   - Lifecycle of Activity

5. **USER INTERFACE**

   - View Hierarchy and Layouts
   - UI Events
   - Building Menus
   - Creating Dialogs
   - Scroll View

6. MAIN BUILDING BLOCK

- Activity
- Intents
- Pending Intent
- Broadcast Receivers
- Services

7. ANDROID MEDIA API

- Music Player
- Video Player
- Audio Player
- Taking a Picture
- Calculator

8. Call

- Calling Application

9. Short Messaging Service (SMS)

- Creating SMS sending Application

10. Working on Splash Screen

- Creating app with Splash Screen