

ActiveNET

#203, Manjeera Plaza, Opp: Aditya Park Inn, Ameerpet, HYDERABAD - 500038

enquiry@activenetinformatics.com, activesurya@gmail.com

23751135, 66733933, 9848111288

Android Course Content

Duration: 45 hours

Android Introduction

1 hour

- Android Overview and History
- Mobile Application Development Overview
- Why Android

Android Stack

1 hour

- Architecture
- Linux kernel, Native libraries
- DVM, App framework and Applications

SDK Overview

1 hour

- Installation, Versions
- Platforms, Tools

Creating First Android App

2 hours

- Creating your first project(Hello World)
- The manifest file, Layout resource
- Running your app on Emulator

Main Building Blocks

4 hours

- Activities, Activity lifecycle
- Intents, Services
- Broadcast Receivers
- Content Providers

Intent Filters

1 hour

- Role of filters
- Intent-matching rules

- Filters in your manifest

Basic Android User Interface

5 hours

- Ways of UI creation, Views and layouts
- Common UI components, Handling user events
- Types of Resources, Accessing Resources in xml and Java.

Advanced UI Components

5 hours

- Selection components
- Complex UI components
- Adapters, Menus and Dialogs
- Graphics & Animations

Android System Overview

3 hours

- File System, Preferences
- Notifications, Security model
- Android Application Debugging

Data Storage

3 hours

- Shared Preferences
- Internal Storage(Files)
- External Storage(SD Card)
- Database (SQLite)

SQL Database

4 hours

- Introducing SQLite
- Creating a DB, Opening and closing a DB
- SQLiteOpenHelper, SQLiteDatabase, SQLiteStatement
- Working with database(create, Insert, update, and delete)
- Working with Cursor

Services

2 hours

- Overview of Services in Android
- Service Lifecycle
- Implementing a Service
- Bound Vs Unbound Services

Broadcast Receivers

2 hours

- What are Broadcast Receivers

- Implementing Broadcast Receiver

Multimedia in Android

3 hours

- Multimedia Supported audio formats
- Simple media playback with animations example
- Supported video formats and Simple video playback

Advanced Topics:

8 hours

Location Services and GPS

Telephony

Camera

Bluetooth

WiFi

Web Services & XML Parsing