

**ThinkNEXT Technologies Private Limited**

**SCF 113, Sector-65, Mohali (Chandigarh)**

**An ISO 9001:2008 Certified Company**

**Android Training**



**Software Development | Electronics Systems Development  
| CAD/CAM Systems | Industrial Training | Placements**



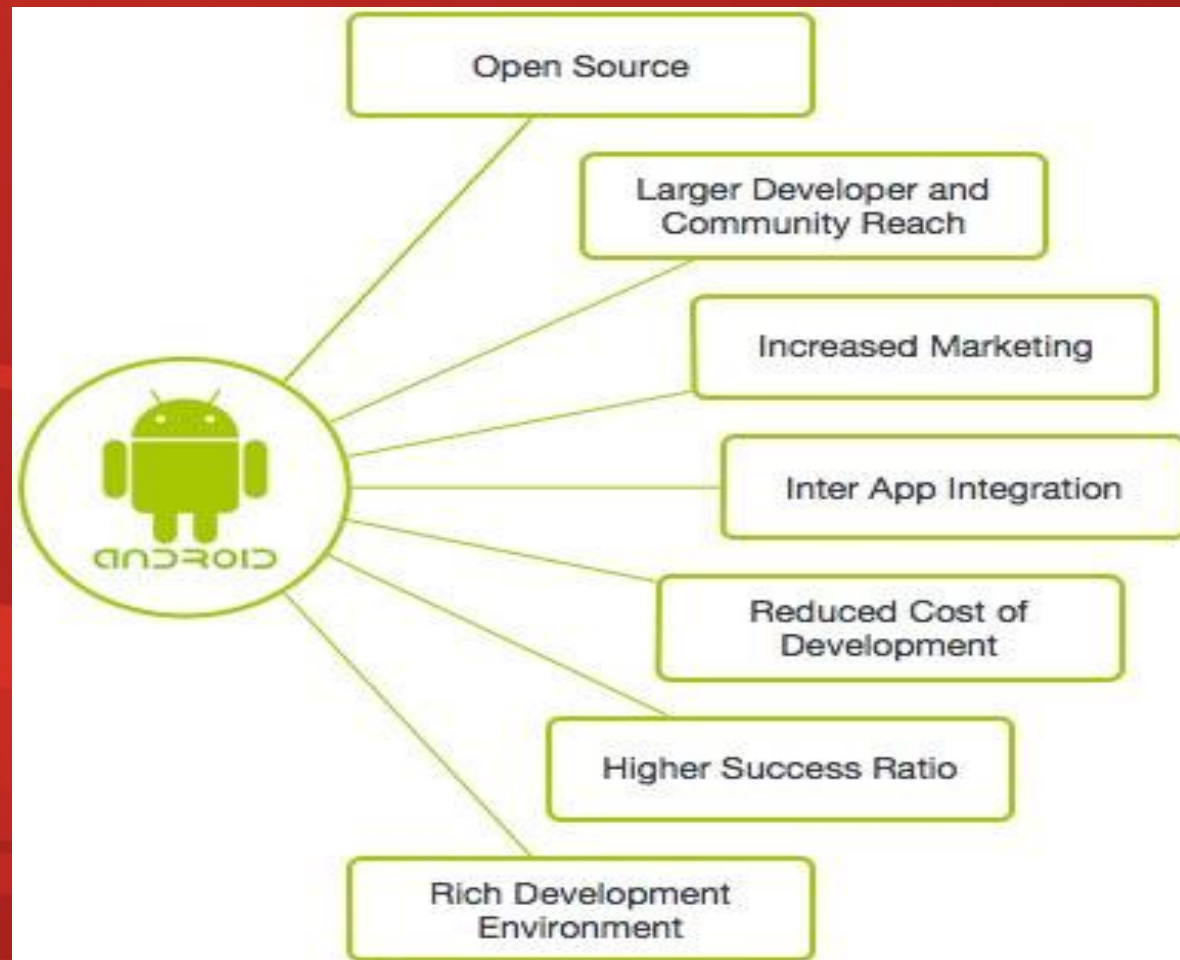
# What is ANDROID

## The World's Most Powerful Mobile Platform

- Android is a Mobile Operating System developed by Google, based on the Linux kernel and designed primarily for Touchscreen Mobile Devices such as Smartphones and Tablets.
- Android was Initially developed by Android, Inc., which Google bought in 2005 and later the OHA (Open Handset Alliances) and other companies.



# Why Android ??



# Features of Android OS

- Open Source
- Beautiful User Interface
- Preinstalled applications from Google
  - Gmail, Maps, Search, Voice Search, YouTube, Web Browser, Messaging(SMS,MMS)
- Support for Camera, GPS, Accelerometer
- Media support (MPEG4, H.264, MP3, AAC, JPG,PNG etc.)
- Multi-language, Multi-touch & Multi-tasking
- It supports wireless communications using:
  - GSM/EDGE, CDMA
  - 802.11 Wi-Fi networks
  - Bluetooth



## **Why Android Training from ThinkNEXT ?**

- **Part-Time/Full-Time job offer for each student during training**
- **Free Spoken English, Personality Development and Interview Preparation (HR+Technical Round) classes on daily basis**
- **ThinkNEXT Cloud Campus Advantage not only during training, even after completion of training for lifetime**
- **Highest level of infrastructure in Chandigarh, Mohali, Panchkula with 200+ computers and 16+ labs**
- **Free Google Play Store account to host mobile apps**

- Smart Labs with large display LEDs and Wi-Fi Labs.
- Learn from Developers/Industry experts rather than Teachers/Trainers
- One-to-One PC and Corporate Environment.
- Industrial Training Programmes are designed as per the industry needs to make students industry-ready.
- Every student is provided with “Live Projects” mentored by Industry Experts.



# Android Training Syllabus

## Introduction to Core Java

- Java – Overview
- Environment Setup
- Basic Syntax, Object & Classes
- Basic DataTypes & Variable Types
- Basic Operators
- Loop Control & Decision Making
- Numbers, Characters, String, Array
- Introduction to Java Object Oriented

## Introduction to Android

- What is Android?
- Why Android?
- Features of Android
- History of Android
- Android Versions & API Level?
- Architecture of Android
- Development Environment Setup

## Android User Interface

- UI Layouts
- UI Controls - (EditText, TextView, Button, Toast, ToggleButton, CheckBox, RadioGroup, RadioButton, Spinner, AutoCompleteTextView, RatingBar, SeekBar, ProgressBar, SnackBar, ImageView, ListView, EditText with Floating Labels)
- UI Design
- Screen Orientation
- Android Action Bar
- Styles and Themes

## Android Activity & Intents

- Activity Life Cycle
- Implicit Intent
- Explicit Intent
- Intent Filters
- Event Handling on UI Controls

# **Android Training Syllabus**

## **Menus in Android**

- Option Menu
- Context Menu
- Popup Menu
- Sub Menu

## **Alert Dialogs**

- Alert Dialog
- Custom Dialog
- List Dialog
- Progress Dialog
- MultiChoice ListDialog
- Date Picker & Time Picker Dialog

## **Android Telephony**

- Telephony Manager
- Phone Calls
- Sending SMS
- Sending Email

## **Android Multimedia**

- MediaPlayer
- VideoPlayer
- Camera
- Audio Record
- Audio Manager
- Text To Speech
- Speech To Text
- Google Voice Typing

## **Android Services & Broadcast Receivers**

- Bluetooth
- Wi-Fi
- Location (GPS)
- Notifications
- Battery Manager
- Alarm Manager



# Android Training Syllabus

## Android Useful Concepts

- CountdownTimer
- Text Watcher
- WebView
- Network Connection
- SQLite Database
- Image Database
- Session Management
- Shared Preferences
- Sensors
- CountdownTimer
- Text Watcher
- WebView
- Network Connection
- SQLite Database
- Image Database
- Session Management
- Shared Preferences
- Sensors

## Location Based Services & Google Maps Advanced

- Weather Forecasting
- Finding Current Location on Map & Address
- Search Place & Place Details
- Google Maps Duration, Distance & Directions API
- Finding Nearby Places & Place Details API

# Advanced Android Syllabus

- Floating Action Button
- Fragments
- ViewPager
- Swipe Gesture
- Navigation Drawer
- Tab Host & Swipe Tabs
- Customize UI Controls
- Customize Action Bar
- Designing Splash Screen
- Material Design
- Runtime Permission Handling
- Fingerprint Authentication
- JSON Parser
- Google Developer Console
- Building Signed APK
- Publishing Android App on Play Store

## Android Training on Android Studio

The Official IDE for Android Development



# **ThinkNEXT Technologies Private Limited**

## **Corporate office**

**S.C.F-113, Sector-65, Phase-XI, Mohali  
(Chandigarh)**

## **Tele-Support**

**Contact: 78374-01000, 78374-02000, 78374-03000,  
78374-04000, 0172-4656197**