

Mobile Application Development using Android Programming

7 Weeks Online Course

7 Weeks / 100 Hrs. (3 Hrs. per day)

Timing: 10:00AM to 01:00PM

Medium of Instruction: Bilingual (English & Hindi)

Objective

The Android is an operating system and programming platform developed by Google for mobile phones and other mobile devices, such as tablets. This is a practical oriented course which provides participants with the information and lab experience necessary to develop and deploy Android applications. This course covers core java and basic Android application Development. It provides theoretical background as well as in-depth knowledge of app development related environment and packages.

B.E.*/B.Tech.* (in Any Stream), MCA*/BCA*/B.Sc.* (IT/CS)/ M.Sc.* (IT/CS), Diploma* (CS/IT), NIELIT A Level (*pursuing candidate may also apply) OR Professional/Official with Graduation (in Any Stream) and working in relevant domain, having knowledge of Computer Programming and Operating System.

Eligibility

- ✓ Candidate must have latest computer/laptop with at least 8 GB RAM.
- ✓ Internet connection with good speed (*preferably 2 Mbps or higher*)

Prerequisites

Course Fees

Rs 4,200.00 (Including GST)

Certificate

Certificate will be provided to the participants, based on minimum 75% attendance and on performance (minimum 50% marks) in the online test, conducted by NIELIT Gorakhpur, at the end of the course.

How to Apply?

Step-1: Read the course structure & course requirements carefully.

Step-2: Visit the Registration portal and click on apply button.

Step-3: Create your login credentials and fill up all the details, see the preview and submit the form.

Step-4: Login with your credentials to verify the mobile number, email ID and then upload the documents, Lock the profile and Pay the Fees online, using ATM-Debit Card / Credit Card / Internet Banking / UPI etc.

Salient Features

Instructor Led Online Training

E-Learning Contents

Self-Assessment

Real World Demo

Course Content

Day	Topic	Day	Topic	Day	Topic
Day #01	<ul style="list-style-type: none"> Introduction to JAVA Feature of JAVA JVM and their environments Difference between JDK, JRE and JVM 	Day #02	<ul style="list-style-type: none"> Java Variables Flow Control (If, switch) Loop (for each, while, do while) 	Day #03	<ul style="list-style-type: none"> Java Variables Arrays Arrays List String
Day #04	<ul style="list-style-type: none"> OOPs Concept Object ,Class, Polymorphism 	Day #05	<ul style="list-style-type: none"> Inheritance Type of Inheritance 	Day #06	<ul style="list-style-type: none"> Interface Packages
Day #07	<ul style="list-style-type: none"> Multithreading Life Cycle of Thread Thread Priorities 	Day #08	<ul style="list-style-type: none"> Exception Handling Types of Exception Advantage of Exception Handling 	Day #09	<ul style="list-style-type: none"> SQL Type of SQL Commands DDL and DML Query
Day #10	<ul style="list-style-type: none"> Android Architecture Overview Linux Kernel Application Framework Android Stack 	Day #11	<ul style="list-style-type: none"> Android Versions Installing of Android SDK Updating SDK Components Update SDK Packages 	Day #12	<ul style="list-style-type: none"> Android Studio IDEs ADT plug-in Emulator, GenyMotion Using the Emulator Android Vs. Other mobile platforms
Day #13	<ul style="list-style-type: none"> Application Life Cycle Application Components, Activity life cycle 	Day #14	<ul style="list-style-type: none"> Manifest File Layout XML Code Strings The R File 	Day #15	<ul style="list-style-type: none"> Java Source Code Java based layout vs. xml based layout Logging
Day #16	<ul style="list-style-type: none"> Using different layouts Linear Layout Table Layout etc. 	Day #17	<ul style="list-style-type: none"> Drawable Resources Resolution and density independence Working with common widgets 	Day #18	<ul style="list-style-type: none"> Working with ListView Adapters Creating and using menu
Day #19	<ul style="list-style-type: none"> Working with preferences Working with Dialogs and Toasts, Working with Graphics and Animation 	Day #20	<ul style="list-style-type: none"> Intents, Intent filters Invoking activities by class name and URI 	Day #21	<ul style="list-style-type: none"> Sharing data using Extras Bundle and URI parameters Working with Tabs and Fragments
Day #22	<ul style="list-style-type: none"> Using File System Introducing SQLite on Android Database Connectivity 	Day #23	<ul style="list-style-type: none"> Cursors and content values Using Content Provider to share data 	Day #24	<ul style="list-style-type: none"> Introducing Service and its life cycle Creating and starting a service
Day #25	<ul style="list-style-type: none"> Types of services, Working with multi-threading and AsyncTask 	Day #26	<ul style="list-style-type: none"> Broadcast receivers Triggering receivers with intents 	Day #27	<ul style="list-style-type: none"> Responding to system events using Broadcast receivers
Day #28	<ul style="list-style-type: none"> Notification, Broadcast notification using firebase 	Day #29	<ul style="list-style-type: none"> Login Activity with firebase Integration of Youtube 	Day #30	<ul style="list-style-type: none"> Process of uploading .APK file on Google Play Store
Day #31	<ul style="list-style-type: none"> Question and Answer Session Distribution of Mini Project 	Day #32	<ul style="list-style-type: none"> Mini Project [Phone Calling, Messaging] 	Day #33	<ul style="list-style-type: none"> Mini project [Notification , Student Registration System]
Day #34	<ul style="list-style-type: none"> Presentation of Mini Project 	Day #35	<ul style="list-style-type: none"> Final Test 		

COURSE COORDINATOR

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