

1 WEEK NATIONAL WINTER TRAINING PROGRAM ON Android Apps Development



Android Application
Development



ANDROID

Highlights of Android Apps development Training

After completing the Android Development training you should be able to understand:



- Basic Android Development tools such as Android Studio, DDMS, Drawables, Listeners, and so on.
- How to use various Layouts and Widgets in Android Applications.
- How to create interactive applications in android with multiple activities including audio, video and notifications.
- How to create applications using SQLite database.
- How to publish your App on Google Play

1-week Android Apps Projects details



- Media Player, Video Player
- Camera Application
- Google maps
- Bluetooth Application
- Wi-Fi Application
- SMS Application
- Dialog box Application
- Motion Sensors Application
- Spelling Checker


1-week Training Certificates




- Certificate of Participation from NWTP-2017, Cognizance IIT-Roorkee.
- Certificate of merit from NWTP-2017 , Cognizance IIT-Roorkee.
- Certificate of Coordination from NWTP-2017, Cognizance IIT-Roorkee.
- College will get Center of Excellence from NWTP-2017 Cognizance IIT-Roorkee.



Benefits to the participants

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- Learn & Interact with renowned Industry Experts.
 - Project Completion letter to each attendee from Finland Labs New delhi
 - The Certificate of Participation in association with Cognizance IIT-R.
 - Free CD/DVD containing Software Resource Toolkit
 - Students will get the opportunity to have Free 6 month project based Internship.
 - Zonal center's winners will be called to participate in the final round will be held at IIT-Roorkee.
 - Top Teams will be awarded as winners with the certificate of honor & respected prizes at IIT-Roorkee

Benefits of association with NWTP-2017

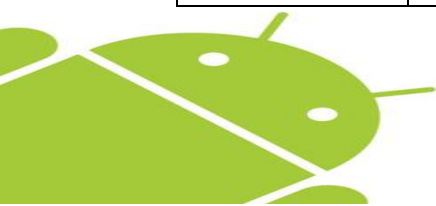
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- Name and Logo including website link will be published on our official website mentioning that “You are our Official Zonal Partner”.]
 - Authorized Team will visit your College to organize the entire event.]
 - The chance to get signs the MOU between Finland labs New delhi & Your estimated college.
 - An email will be sent to more than 1 lack users of our web partners about your college publicity.]
 - Posters and Flexes will be sent to you for effective regional publicity.]
 - All India publicity through Web marketing will also be done.]



1-week

Android Apps Development Course Content

Days	Therory & Hands on Topics of Android Training
1 st Day	<p>Introduction to Android</p> <ul style="list-style-type: none"> • What is Android? • History Behind Android Development • Setting up development environment • Android Architecture • Dalvik Virtual Machine • UI Components - Views & notifications • Components for communication • Intents & Intent Filters • Android API levels • Hello Android example
	<p>Application Structure and UI Widgets</p> <ul style="list-style-type: none"> • AndroidManifest.xml • uses-permission & uses-sdk • Resources & R.java • Assets • Layouts & Draw able Resources • Activities and Activity lifecycle • First sample Application • Working with Button • Toast • Custom Toast • Button, Toggle Button • Switch Button, Image Button • Date Picker , Time Picker
2 nd Day	<p>Activity & Intent</p> <ul style="list-style-type: none"> • Activity Lifecycle • Activity Example • Types of Intent • Implicit Intent • Explicit Intent



	<ul style="list-style-type: none"> • Checkbox , • Alert Dialog • Complex UI components
	<p>Layout Design</p> <ul style="list-style-type: none"> • Absolut layout • Relative Layout • Linear Layout • Table Layout • Grid Layout • Frame Layout
	<p>Hand-on session</p> <ul style="list-style-type: none"> • Change one activity to another activity • Calling and Dialing Application • Camera Application • Web and Url Application
<p>3rd Day</p>	<p>Notification Manager</p> <ul style="list-style-type: none"> • Working in the Background • Creating and Controlling Services • Binding Activities to Services • Creating New Threads • Synchronizing Threads for GUI Operations • Using Toasts in Worker Threads • Introducing the Notification Manager • Creating Notifications
	<p>Broadcast Receiver &Content provider</p> <ul style="list-style-type: none"> • Understanding Broadcast action, category and data • Registering Broadcast receiver through code and through XML • Sending Broadcast • Accessing built in content providers • Content provider MIME types • Searching for content • Adding, changing, and removing content • Creating content provider



	<ul style="list-style-type: none"> • Working with content files
4 th Day	<p>Animation</p> <ul style="list-style-type: none"> • Introduction of Android Animation • Types of animation • Property animation • Scale animation • Alpha animation • Rotate animation • Translate animation • Frame by Frame Animation <p>Examples</p> <ul style="list-style-type: none"> • Hand on all type of animation • Example of Scale animation • Example of Alpha animation • Example of Rotate animation • Example of Translate animation • Example of Frame by Frame Animation
5 th Day	<p>Google Maps</p> <ul style="list-style-type: none"> • Maps & Location-Based Services • Creating Map-Based Activities • Introducing Map View and Map Activity • Configuring and Using Map Views • Using the Map Controller • Customizing Map • Google Map class • Android Google Map Application • Proximity alerts • Working with Google Maps • Showing Google map in an Activity • Map Overlays • Itemized overlay <p>Examples</p> <ul style="list-style-type: none"> • Gets current location using gap. • Finding location using service provider • Finding location Using Broadcast Receiver



6 th Day	<p>Multimedia in Android</p> <ul style="list-style-type: none"> • Multimedia Supported audio formats • Simple media playback <p>Data Storage</p> <ul style="list-style-type: none"> • Using Shared Preferences • Android File System • Internal storage • Using SQLite • Introducing SQLite • SQLite Open Helper and creating a database <p>Examples</p> <ul style="list-style-type: none"> • Application One Audio Player • Application on Storing Data Using Shared Preferences
7 th Day	<p>Bluetooth device</p> <ul style="list-style-type: none"> • Controlling local Bluetooth device • Discovering and bonding with Bluetooth devices • Managing Bluetooth connections • Communicating with Bluetooth <p>Android P2P Communication</p> <ul style="list-style-type: none"> • Introducing Instant Messaging • Sending and Receiving Data Messages • Transmitting Data Messages • Receiving Data Messages <p>Example</p> <ul style="list-style-type: none"> • Application On sending SMS • Application On Bluetooth On Off



Zonal Competition



- After the hand on theory and practical experience from 1-week training, Zonal Round Competition will be conducted for the participants.

Certificate Distribution

- Certificate of Merit will be provided to all Zonal Round Winners and Certificate of Participation will be provided to all the Zonal Round Participants.

Who should go for this Course?

Anyone who wants to learn Android should have a Core Java knowledge along with an analytical blend of mind and logic reasoning. We also provide a complimentary course "Java Object Oriented Concepts" to all the participants who enroll for the Android Development course. This course helps you brush up your Java skills and clear your concepts in Java

What are the other requirement for this training program?

- Seminar hall/classroom having the enough capacity to conduct hands-on-session for all participants.
- Good Quality public address system ideally two cordless mikes will be required.
- Projector/ Screen along with black/white board for teaching and presentation purposes.
- This training center can only be arranged for a minimum of 50 students
- 1-week accommodation to our Android Expert.



Training Duration

1-week (3-4 hours each day)



1-week Android Apps development Training Fee

Rs.4000/- Participant + Services Tax @ 15.0%,

(The fee includes training, certification, and Event registration and a free Android Apps Kit to each Student)

Please be free to contact us for any kind of discussions related to NWTP-2017



Md.Nafish

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