

2- DAYS
NATIONAL LEVEL WORKSHOP CUM CHAMPIONSHIP ON
Android Apps Championship



Grand final competition

Grand finale of all zonal center winners will be in March at IIT-Roorkee

Zonal Level Competition

Prelims Rounds will be held just after the completion of workshop at zonal center

Zonal Level Workshop

2-Days workshop on Android Apps will be organized by NSTP-2016 at zonal center

About the Android Apps Development workshop

The Android Development course is primarily designed for programmers who want to learn how to create applications in Android. You will create widgets, Customize List view, Grid view, Spinners etc, create applications using audio & video finally publish it on Google Play.

Android Apps Development training Objective program

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

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

Workshop Certification

1. Certificate of Participation from NSTP-2016 EDC IIT-Roorkee.
2. Certificate of merit from NSTP-2016 EDC IIT-Roorkee.
3. Certificate of Coordination from NSTP-2016 EDC IIT-Roorkee.
4. College will get Center of Excellence form NSTP-2016 EDC IIT-Roorkee.



About stages of Android Apps Championship-2016

AppsFluxus'16 is a National Level Android Apps Championship & Workshop series jointly organized by ED Cell of IIT-Roorkee & Finland Labs™. All the preliminary rounds will held at Zonal Centers across India in present academic year & the grand finale will be held at IIT-Roorkee

1st Stage (To be held at Zonal Centers):

- Competitions will held at different Zonal centers through workshop on Android Apps Development.
- All the participants who want to participate in Android Apps Championship are required to attend the workshop at any zonal center.

2nd Stage (Prelims rounds to be held at zonal center):

- Just after the workshop a Prelims Rounds of NSTP-2016 will held at zonal center.
- Winners will be awarded with Certificate of Merit and will be eligible to participate in Final Rounds which will be held at IIT-Roorkee.

3rd Stage (FINAL Round to be held at IIT-Roorkee):

- Winners of zonal centers will be called to participate in **the biggest final round of Android Apps championship will held at IIT-Roorkee**
- Top 3 Teams will be awarded as winners of The NSTP-2016 championship & will be awarded & honored by The Entrepreneurship Development Cell of **IIT-Roorkee**.

2-days Android Apps Course Contents

1st Day Course Content

➤ First Session

❖ Introduction Android

- Open Platform for Mobile Development
- Introduction to JAVA Why java
- Android Platform
- Why Develop for Android
- What Does Android Run On?
- Introduction to Android SDK
- Android SDK Features
- Introducing the Development Framework
- Android Architecture

❖ Android Software installation

- How to install java Jdk
- How to install Eclipse IDE
- How to install Android SDK
- How to install Android Plugins

Android Apps to be covered in 2 Days workshop

- Login Application
- Call Dialing Application
- Camera Application
- Calling Application
- Internet Application (Url Parsing)
- Music Player (Audio & Video player)
- Picture Animation Application

➤ Second Session

❖ How to Create Applications & Activities

- Introducing the Application Manifest
- Android Application Life Cycle
- Externalizing Resources
- Creating Resources

❖ How to Create User Interfaces

- Fundamental Android UI Design
- Introducing Views
- Introducing Layouts
-

❖ Practical Session

- How to create login program
- How to Use Different layouts

2nd Day Course Content

➤ First Session

❖ Introducing Intents

- Using Intents to Launch Activities
- Using Intents to Broadcast Events
- Introducing Adapters
- Android Graphics

❖ Threads & Async tasks

- UI(Main) thread Loppers
- handlers, event flow from system
- Writing threading programs Updating UI

❖ Practical Session

How to create A Music Player

➤ Second Session

❖ Introducing Content Providers

- Using Content Providers
- Using custom
- Native Android Content Providers

❖ Introducing Broadcast Receivers

- Creating a service
- Content Providers
- Broadcast Receivers
- Alarms manager

❖ Practical Session

How to create list View Apps

- ❖ Query Solving
- ❖ Remove Errors & debugging & run Apps
- ❖ Apps Competition