

Android Development

Robotech Labs Private Limited

ANDROID





Android Level 1 Workshop

This workshop is designed for the beginners to start with Android Development. The Workshop is hands-on workshop which enables students to learn by doing during the workshop.

Topics Covered in the workshop :

- Introduction to Android technology
- Structure of Android applications

Students will install the SDK Tools, Eclipse, and other Tools or Android Studio. Students will get ready to develop by creating Android Virtual Device and Setting a Android Device.

- Understanding Manifest
- **Working with Activities**
 - o Creating Skelton Application
 - o Using XML based layouts
 - o Using Basic Widgets
 - o Working with Containers
 - o Using **Selection Widgets**
 - o **Applying Menus and Fonts**
 - o **Showing Pop-up Messages**
 - o Dealing with Threads
 - o Handling Activity Lifecycle events

By this time the students will be able to develop the simple buttons, menu box, how to create a toast, pop up messages, etc and other basic structures of the app.

- **Intents**
 - o Create Intent Filters
 - o Launching Activities
 - o Introspection with action
 - o Handling Rotation



- **Data stores, Network services and APIs**
 - Setting Preferences
 - Accessing the Files
 - Working with Resources
 - Managing Local Databases
 - **Communicating with Internet**

Students will learn on how to create database and connect your app to internet.

- **Content Provider and services**
 - Using a Content Provider
 - Creating a Content Provider
 - Managing Permissions
 - Creating and Using the Services
 - Creating Alerts with Notifications

Students will learn to set permissions for app that are needed by the user.

- Telephony and SMS

How to send a automated message using your App to the user.

- Audio, Video and using the Camera

Students will learn to use the media player / Camera. Sample activity is creating a Media player to play audio/video songs.

- Publishing your App.

Students will learn to actually publish your app on Google Play Store including the full process of registration and uploading.

- Android Hacks

Every Topic will be discussed using a practical Project.



Charges:

Rs 1000 per person.

Duration

2 Days (14-16 Hours)

Certification:

Certificate of Excellence from Robotech Labs Private Limited and our associates.

Requirements:

Seminar Hall, Projector, Sound System and Internet Connection.