



Android Application Development - Kotlin

The course is for designing and building mobile applications using Android™ open-source platform. It will be a combination of lecture and laboratory course which will help the student understand the philosophy of developing for Android™ through its main application development building blocks and their interaction with one another.

This course encourages students to learn by building increasingly more sophisticated and meaningful mobile applications for Android™

Syllabus

- Introduction to Kotlin Programming Language
- Classes and Objects in Kotlin
- Functions and Lambdas in Kotlin
- Advanced Concepts in Kotlin
- Java Versus Kotlin
- Introduction to Android 8.0
- Introduction to Android Apps Development TOOL
- What is Activity?
- Developing a Simple Android login screen UI design
- Types of Layouts in Android
- Introduction to Android Java class file & its structure.
- Creating a simple Toast Message Application with the On click button
- Android Virtual device (AVD)?
- How to create Android Virtual Device (AVD)
- How to run our App on our own Android device
- Android Activity Lifecycle
- Android Menus
- Basic widgets in android, Creating a Simple user registration page UI

- Creating a new Activity
- Passing Data between Activities
- Android Manifest file
- Basic Components of Android
- Effective usage of Android Templates
- Android Fragments
- Firebase
- Fetching data from firebase
- SQLite Database, CRUD operations with it.
- Procedures to launch your App on the Play store.
- **3 Android applications (APKs).**

What you will learn

- Build enterprise-level mobile applications using Kotlin
- Understand both the basic and advanced concepts of Kotlin
- Understand why to use Kotlin in android application development
- Install and configure Android Studio
- Explain and use key Android programming concepts
- Using firebase as a database
- Deploy the application on Google Play

SKILLS GAIN



Experts predict that Android shipping would increase by **26%** more and will reach **1.1 billion** users in the upcoming year.

