

Android Basics with Compose - Course Content



Course objectives and learning outcomes

1. Course objectives: The main objectives of the course is to prepare the students with the basics of building Android apps with Jetpack Compose, the new UI toolkit for building Android apps. Along the way, student will develop a collection of apps to start your journey as an Android developer.

2. Course outcomes: To gain hands on working skills and industry project experience by learning & practicing of Android development with compose

3. Prerequisites:

Skills Required: Basic Knowledge of Any Programming Language

System Requirement:

Microsoft® Windows®

64-bit Microsoft® Windows® 8/10

x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD CPU with support for a Windows Hypervisor.Framework

8 GB RAM or more

8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)

1280 x 800 minimum screen resolution

Module	Session duration	Session/Module Name	Topics
1	2.5 Hours	Build your first Android app in Compose	Introduction to programming in Kotlin Set up Android Studio Build a basic layout
2	5 Hours	Build an interactive Android app	Kotlin fundamentals Add a button to an app Interact with UI and State
3	5 Hours	Build Lists and Add Theme	More Kotlin Fundamentals Build a scrollable list Add Theme and Animation
4	5 Hours	Navigation and App Architecture	Architecture Components Navigation in Jetpack Compose Adapt for different screen sizes
5	5 Hours	Connect to the Internet	Coroutines Get Data from the Internet
6	5 Hours	Data Persistence	Introduction to SQL Use Room for Data Persistence Datastore
7	2.5 Hours	WorkManager	Schedule tasks with WorkManager