

Material Design for Android Developers

Course Duration: 8 Hours

Course code: MDAD

1. Course Overview

This course introduces Android developers to Material Design principles and implementation for creating visually appealing, user-friendly, and consistent mobile apps. It focuses on integrating Material Design components, themes, motion, and accessibility into Android applications using both XML layouts and Jetpack Compose.

2. What you'll learn?

- Understand Material Design principles, guidelines, and system.
- Apply Material theming and typography in Android apps.
- Use Material Components (buttons, cards, dialogs, menus, etc.).
- Implement Material Motion (animations, transitions, gestures).
- Build responsive layouts with Material Design patterns.
- Ensure accessibility and usability best practices.
- Integrate Material Design in Jetpack Compose UI.
- Optimize UI consistency across Android devices.

3. Target Audience

- Android developers who want to improve UI/UX skills.
- Mobile developers aiming to adopt Material Design standards.
- Students and professionals interested in modern Android design.
- Teams developing apps for Play Store compliance with Material guidelines.

4. Pre-Requisites

- Basic knowledge of Java/Kotlin.
- Familiarity with Android Studio and Android app development basics.

- Understanding of XML layouts or Jetpack Compose recommended.

5. Course content

Module 01: Android Design Fundamentals

- Understand and apply the fundamentals of Android design to your app.
- Understand app structures, common navigation patterns, and themes.

Module 02: Surfaces

- Understand how to use surfaces to structure the hierarchy in an app.
- Learn how to use surfaces to control interaction of elements in an app.

Module 03: Bold Graphic Design

- Learn how to effectively use imagery and fonts.
- Learn how to effectively use color.
- Learn how to apply themes and styles.

Module 04: Meaningful Motion

- How to properly time an animation.
- Transition between application states.
- Learn how to create orderly animations.

Module 05: Adaptive Design

- Learn how to implement your designs on many screen sizes.
- Learn what considerations to make when adapting a design.