

Flutter application development

Module 1: Introduction to Dart

- Introduction to Dart programming language and its key features
- Understanding the Dart syntax and data types
- Working with variables, constants, and functions in Dart
- Control flow statements in Dart: if-else, switch-case, loops
- Object-Oriented Programming (OOP) concepts in Dart: classes, objects, inheritance, polymorphism

Module 2: Introduction to Flutter

- Introduction to Flutter and its key features
- Understanding the Flutter architecture
- Setting up the development environment for Flutter
- Creating your first Flutter application
- Building a basic user interface using Flutter widgets

Module 3: Flutter Widgets

- Understanding Flutter widgets and their properties
- Exploring different types of widgets such as layout widgets, text widgets, image widgets, etc.
- Working with stateful and stateless widgets
- Building complex UI layouts using widgets
- Understanding the concept of navigation in Flutter

Module 4: Firebase Integration

- Introduction to Firebase and its key features
- Setting up Firebase for your Flutter application
- Implementing Firebase Authentication in your Flutter application
- Storing data in Firebase Realtime Database and Firestore
- Using Firebase Cloud Messaging (FCM) for push notifications in Flutter