



# FLUTTER

- **DURATION OF TRAINING : 32 HRS.**
- **BATCH TYPE : WEEKDAYS/WEEKENDS**
- **MODE OF TRAINING :  
CLASSROOM/ONLINE/CORPORATE TRAINING**



## **INTRODUCTION TO DEVELOPMENT WITH FLUTTER**

Learn to set up a new Material App using Android Studio. Understand the Widget tree and learn to use pre made Flutter Widgets for user interface design.

Learn to incorporate Image and Text Widgets to create simple user interfaces. Learn to customize pre-built Flutter widgets. Add App Icons for iOS and Android builds. Learn to run Flutter apps on iOS Simulator, Android Emulator, and physical iOS and Android devices.

## **CREATING BEAUTIFUL UI WITH FLUTTER**

Use Hot Reload and Hot Restart to quickly refresh the app UI and understand when to use each. Learn to use the Pubspec. yaml file to incorporate dependencies, custom assets and fonts.

An introduction to the Widget build() method. Learn to use layout widgets such as Columns, Rows, Containers and Cards. Incorporating Material icons using the Icons class.

## **BUILDING APPS WITH STATE**

Understand the difference between Stateful and Stateless Widgets and when they should each be used. Understand how callbacks can be used detect user interaction in button widgets.

Understand the declarative style of UI programming and how Flutter widgets react to state changes. Learn to import dart libraries to incorporate additional functionality.

Learn about how variables, data types and functions work in Dart. Build flexible layouts using the Flutter Expanded widget. Understand the relationship between setState(), State objects and Stateful Widgets.

## **USING THE DART PACKAGE MANAGER**

Learn to use the Dart package manager to incorporate Flutter compatible packages into your projects. Learn more about functions in Dart and the arrow syntax. Learn to refactor widgets and understand Flutter's philosophy of UI as code.

## STRUCTURING FLUTTER APPS

Learn to use Dart Constructors to create customisable Flutter widgets.  
Apply common mobile design patterns to structure Flutter apps.



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