



# EMPOWERING YOUR FUTURE

Job Oriented Programs



## Our Course

### FLUTTER APP DEVELOPMENT

An inclusive IT course for anyone eager to dive into mobile app creation using Google's versatile Flutter framework.



# FLUTTER APP DEVELOPMENT

3



**Program Duration**  
6 Months



**Eligibility**  
Basic Computer Familiarity



**Course Fee**  
Rs. 2,500 / per month



**Class Mode**  
Online / In-Person



**Scholarships**  
Only for In-Person Students

## COURSE CONTENT

DART

FLUTTER BASIC

BUILD UIS

API INTEGRATION

FIREBASE INTEGRATION

PORTFOLIO

RESUME

# PROGRAM CURRICULUM

## MODULE 1

INTRODUCTION

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FLUTTER TO DART INTRO

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DART PAD

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INSTALLING DART SDK

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INTELLIJ IDEA

## MODULE 2

DART PROGRAMMING  
SYNTAX

DART SYNTAX INTRODUCTION

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FLUTTER TO DART INTRO

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MAIN () FUNCTION

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DART VARIABLES

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DART DATA TYPES

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INFORMATION TO DART PROGRAM

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WRITING COMMENTS

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IF, IF - ELSE, IF & ELSE AND ELSE

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IF ELSE AND LOGICAL OPERATORS

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LOOPS, WHILE LOOPS, DO-WHILE

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SWITCH & BREAK STATEMENT

# PROGRAM CURRICULUM

## MODULE 3

### DART FUNCTIONS & OOPS

#### FUNCTIONS & STRUCTURE

CREATING A FUNCTION

FUNCTION RETURN DATA TYPES

VOID FUNCTION

FUNCTION RETURNING EXPRESSION

FUNCTIONS AND VARIABLE SCOPE

OBJECT-ORIENTED PROGRAMMING

OBJECTS AND CLASSES

CREATING A CLASS

ADDING METHODS TO CLASSES

PROVIDING CONSTRUCTORS

CLASS INHERITANCE

ABSTRACT CLASS

DART PROJECT STRUCTURE  
AND DART LIBRARIES

## MODULE 4

### ALL ABOUT FLUTTER

#### UNDERSTANDING FLUTTER

FLUTTER FRAMEWORK

ANDROID STUDIO

FLUTTER SDK

INSTALLING AND CONFIGURING  
FLUTTER SDK

CREATING A NEW FLUTTER PROJECT

SETUP AN ANDROID VIRTUAL DEVICE

RUN A FLUTTER APP

TEST YOUR FLUTTER APP ON PHONE

ANDROID STUDIO SUGAR AND SPICE

FLUTTER WIDGETS

MATERIAL APP WIDGET

ABSTRACT CLASS

SCAFFOLD, IMAGE, ICON WIDGET

CONTAINER WIDGET

COLUMN AND ROW WIDGETS

CARD WIDGET, APP ICON

STATEFUL AND STATELESS WIDGETS

USE A CUSTOM FONT

# PROGRAM CURRICULUM

## MODULE 5

### NAVIGATION AND ROUTING

BUTTON WIDGET

FLOATING ACTION BUTTON

RAISEDBUTTON, FLATBUTTON

DROPDOWN BUTTON

OUTLINE BUTTON, BUTTON BAR

POPUUP MENU BUTTON

APP STRUCTURE AND NAVIGATION

NAVIGATE TO A NEW SCREEN AND BACK

NAVIGATE WITH NAMED ROUTES

SEND AND RETURN DATA

ANIMATE A WIDGET ACROSS SCREENS

WEBVIEW WIDGET IN FLUTTER

## MODULE 6

### VISUAL, BEHAVIORAL, AND MOTION-RICH WIDGETS IMPLEMENTING

MATERIAL DESIGN GUIDELINES

INTRODUCTION

BOTTOM NAVIGATOR BAR

TAB BAR

LISTTILE WIDGET

LIST VIEW, DRAWER WIDGET

DATATABLE WIDGET

STACK WIDGET

INPUT AND SELECTIONS

TEXT FIELD WIDGET

CHECKBOX GROUP A

DATE, TIME, SLIDER, SWITCH WIDGET

ABSTRACT CLASS

SCAFFOLD, IMAGE, ICON WIDGET

CONTAINER WIDGET

COLUMN AND ROW WIDGETS

CARD WIDGET, APP ICON

STATEFUL AND STATELESS WIDGETS

DIALOGS, ALERTS, AND PANELS

# PROGRAM CURRICULUM

## MODULE 7

### FIREBASE

INTRODUCTION

WHAT IS THE JSON?

S FIREBASE DATABASE WORK

FIREBASE AUTHENTICATION

CONNECT FIREBASE SERVICES

CONNECT FIREBASE TO ANDROID APP

FIREBASE AUTHENTICATION

LOGIN USING FIREBASE

LOGOUT CONFIGURATION

FIREBASE DATABASE

REAL TIME DATABASE

CLOUD FIRE STORE

## MODULE 8

### APP TESTING & PUBLISHING

APP TESTING AND FEEDBACK

SETTING UP A TEST ENVIRONMENT

USABILITY TESTING BY PARTICIPANTS

STARTING YOUR TEST SESSION

ANALYZING YOUR TEST

PUBLISHING FLUTTER APPS

APP PUBLISHING ON PLAY STORE

APP PUBLISHING ON APP STORE

# PROJECT PORTFOLIO



## FLUTTER ECOMMERCE SHOP WITH FIREBASE INTEGRATION

Develop a feature-rich ecommerce app using Flutter and Firebase for seamless shopping experiences, from product browsing to secure transactions.



## FLUTTER MUSIC APP WITH FIREBASE BACKEND

Create an immersive music streaming app with Flutter and Firebase, offering users access to a vast library of songs and personalized playlists with real-time updates and recommendations.



## CHATBOT APP

Develop an intelligent chatbot application in Flutter with Firebase integration, enabling natural language interactions and personalized assistance for users.





[www.careerengine.in](http://www.careerengine.in)

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