



Platforuma
Let's Learn, Innovate & Inspire

School of Programming



Flutter Mobile & Web App Develop.

Training + Internship Brochure

What is Flutter?

Flutter is an open-source UI software development kit created by **Google**. It is used to develop **cross platform** applications for **Android**, **iOS**, **Web platform**, and the **web** from a single codebase.



What we tend to achieve:

To introduce the students to Hybrid Mobile & Web App Development. This course emphasises building up the logic for coding problems, designing UI and having an alternate approach to the same problems with different techniques.

All Modules are Class Room Activity. Which the student will cover during the regular timings. If they wish to learn more. They will also get free '**Open Development Lab Access**' for free of cost.

Who is this Course For?

Anyone who is interested in learning Mobile & Web App Development. **No pre-requisite language required to learn**. Just boot up the laptop and get started.

Break-down for each Session:

- **Theory Sessions:** 20-25 minutes
- **Practical Session:** 40-45 minutes

Program Features:

- Learn conveniently in both **Online & Offline Mode**.
- Get guidance on your learning journey with weekly personalised **mentorship** from industry experts.
- Build practical skills with projects and assignments.
- Step ahead in your career with **Career Assistance Services**.

What this program helps you to achieve:

- Learn cutting edge technologies from the best in Indore faculty and Industry experts.
- Lead and contribute to digital transformation projects in the areas of **UI Designing, Programming, and Development** at your workplace & Home.
- Acquire **in-demand skills** and build your candidature for high growth roles and leading technology companies.
- Crack **technical interview rounds** easily during placement & internships.



Content Description:

	Beginners	Intermediate	Professional
Introduction	What is Flutter		
	Flutter's Architecture		
	How Flutter & Dart Code Gets Compiled		
	Understanding Flutter Versions		
Installation	Installing Android Studio		
	Installing Flutter SDK		
	Setting up Android Emulator		
	Linking real device		
	Configuring the System		
	Flutter First App		
Starting with Dart Language	Introduction to Dart Language		
	Strings, Numbers, Operators		
	Arrays & Functions		
	Conditional Statements		
	Loops		
	OOps Concept		
	Class Constructors & Named Arguments		
Understanding Fundamentals	Creating a New Project		
	An Overview of the Generated Files & Folders		
	Analysing the Default App		
	Building a Widget Tree		
	Material Design		
	Routes		
	Theme & Text		
	Understanding Pubspec files		
	Understanding Assets File		
Understanding the States	Stateless Widgets		
	State full Widgets		
Starting with Flutter Widgets	Scaffold & App Bar		
	Elevated & Raised Buttons		
	Sized Box & Containers		
	Columns & Rows		
	Single Child Scroll View		
	Icons & Images		
	Flexible and Expandable Widgets		
	TextField View		
	List Tile & List View		
		Grid Tile & Grid View	
		Google Fonts	
		Favlcons	

		Date & Time Picker
Navigation & Routing	App Structure & Navigation	
	Navigation to a New Screen	
	Navigate with Named Routes	
	Send and Return Data Among Screen	
Getx Controllers		Introduction to State Management
		Singleton Provider Bloc Patterns
		State Management
		Route Management
		Dependency management
		Getx Utils
		Getx Controllers
		Getx Validators
Advance Widgets		Getx Widgets
		BottomNavigation Bar
		Tab bar & Controllers
		Drawer Widget
		Data Table Widgets
		Slack Widget
		Dialogs, Alerts & Panels
		Futures
		Streams
		Forms
Google Cloud Integration		Hero Animations
		Introduction to Firebase
		Introduction to JSON
		Firebase Database
		Configure App to Android Apps
		Configuring Firebase Authentication
		Google Singin
		Email & Password Signin
		Logout Configuration
		Cloud Firestore
Local Database		Realtime Storage
		File IO
		Shared Preferences
Google Maps Integration		Sqlite Database
		Introduction
		What is GPS and how does it work?
		The Camera Position
		Adding Google Maps to a Flutter app
		Getting a Google API key

			Adding Google Maps Flutter plug-in as a dependency
			Adding your API key for your Android app
			Adding your API key for your iOS app
			Adding a Google Map on Your Flutter App Screen
			Adding a Google Map Marker
			Google Map Types
			Moving the Camera (Camera Animation)
			Capturing an App User's Location for iOS and Android Apps.
			Lab10: Location-Aware Apps Using GPS and Google Maps
			Getting a Google API key
			Creating an App Interface
			Configuring your App to Use Your API Key
			Adding a Google Map on your Flutter App Screen
			Adding a Google Map Marker
			Flutter TM Application Development
			Capturing Users' Location
			Configuring User App's Permission
App Testing & publication			Testing and Feedback for Your App
			Setting up a Test Environment
			Usability Testing by Participants
			Starting your Test Session
			Analysing your Test
			Publishing Flutter Apps
			Publishing Android App on Google Play Store
			Publishing iOS app on Apple Store
Flutter Web			Getting the System Boot up
			Working on Flutter Responsiveness
			Hosting the Web App

Capstone Projects:

These projects will be covered during the session of '**Hands-on sessions**'. After learning the fundamentals, projects related to it will be assigned to every individual in a number of steps to complete the project. Full Assistance and Guidance to complete the project will be provided by the faculty in the classroom.

- ✓ **Portfolio App**
 - ✓ **Tourist App**
 - ✓ **BMI Calculator**
 - ✓ **To-Do App**
 - ✓ **Instagram Clone App**
 - ✓ **GSM Controller App**
 - ✓ **Home Automation App**
 - ✓ **Web Dashboards**
- And other Live Industrial Projects App.***

Platforuma Advantages:

- **E-PORTFOLIO**
An e-portfolio is a snapshot of all the projects done and skills acquired during the program that is shareable across social media channels. This will help you showcase your expertise to potential recruiters.
- **RESUME BUILDING AND INTERVIEW PREPARATION**
We help you build your resume to highlight your skills and your previous professional experience. You'll also learn to crack interviews with our interview preparation sessions.
- **PLATFORUMA HIRING BOARD**
The program provides candidate's access to the Platforuma Hiring Board. Organizations approach us with job/internship opportunities that are shared through the Hiring Board with our candidates. We've seen over 20+ alumni transitions to the careers of their choice.
- **CAREER GUIDANCE**
Get access to career mentoring from industry experts who've transitioned to roles in the industry. Benefit from their guidance on how to build a rewarding career.

Program Fee:

Elements	Beginners	Intermediate	Professional
Fee	₹ 6000/-	₹ 10,000/-	₹ 18,000/-

**18% GST Applicable*

***Co-ordinate with us for discounts and offers*

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