

FLUTTER SYLLABUS

Flutter Development Environment

- Installing Flutter SDK
- Android Studio / VS Code Setup
- Flutter Project Structure
- Flutter CLI Commands
- Running First Flutter App

Dart Programming (FOUNDATION 🔥)

- Variables & Data Types
- Conditions & Loops
- Functions
- OOPS Concepts
- Classes & Objects
- Constructors
- Collections (List, Map, Set)
- Async & Await

FLUTTER SYLLABUS

Flutter Basics & Widgets (CORE 🔥)

- What are Widgets
- Stateless vs Stateful Widgets
- Widget Tree
- Hot Reload
- Build Method
- Scaffold

UI Design in Flutter

- Material Design
- Cupertino Design
- Layout Widgets
 - Row, Column
 - Container
 - Stack
 - Expanded & Flexible
- Text, Image, Button Widgets
- Icons & Themes

FLUTTER SYLLABUS

Navigation & Routing

- Navigator Push & Pop
- Named Routes
- Passing Data Between Screens
- Drawer & Bottom Navigation

State Management (VERY IMPORTANT 🔥)

- setState
- Provider
- Riverpod (Intro)
- Bloc / Cubit (Basics)
- State Management Best Practices

Forms & User Input

- TextFormField
- Validation
- Controllers
- Focus Management
- Keyboard Handling

FLUTTER SYLLABUS

API Integration & Networking

- REST API Basics
- HTTP Package
- JSON Parsing
- Error Handling
- Loading Indicators

Local Data Storage

- Shared Preferences
- SQLite

