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FLUTTER COURSE 1 SYLLABUS

C SYLLABUS

INTRODUCTION

- **Introduction to C**
- **Variables and Data types**
- **Console IO Operations**
- **Operators and Expressions**

Control Flow statements

- **Decision Making in C**
- **If Statement**
- **Switch Statement**
- **Unconditional Branching**
- **While Loop**
- **Do…While Loop**
- **For Loop**
- **Break and continue statements**

Functions,Arrays,String

- **What is a Function**
- **Function Terminology**
- **Call by value and call by reference**
- **Arrays Declaration and Initialization**
- **Multidimensional Arrays.**
- **Standard string library functions**

Pointers

- **Understanding Pointers**
- **Declaring and Initializing Pointers**
- **Function and Pointer Parameters**
- **Pointer and Arrays**
- **Two Dimensional Arrays and Pointers**
- **void Pointer**
- **Dynamic allocation of memory**
- **Difference between malloc and calloc**

Structures and Unions

- **Defining and Using a Structure**
- **Structures within a Structure**
- **typedef keyword**
- **Passing Structures to Functions**
- **Array of Structures**
- **Structure and Pointers**
- **Unions**

DART SYLLABUS

Introduction

- **why Dart?**
- **what is Dart?**
- **Features of Dart**

Data Types and Operators

- **Primitive Data types**
- **String**
- **List**
- **Map**
- **Set**
- **Operators**

Control Flow Statements and Functions

- **Conditional Statements**
- **Loops**
- **Functions in Dart**

Object-Oriented Programming

- **Introduction to OOP in Dart**
- **Classes and objects**
- **Constructor**
- **Inheritance and its Types**
- **this,static,super keyword**
- **Polymorphism**
- **Abstraction and Interface**

Exception Handling and type def

- **try**
- **catch**
- **finally**

- **typedef**

Meta Data and Generics

- **Metadata**
- **Generics**
- **Generics Map**

Asynchronous Programming in Dart

- **Futures in Dart**
- **Async and await keywords**
- **Streams in Dart**

Dart Libraries and Packages

- **Dart Libraries**
- **Custom Libraries**
- **Using external Package in Dart**
- **Creating and publishing packages**

FLUTTER SYLLABUS

Introduction to Flutter

- **What is Flutter?**
- **Flutter installation and setup**
- **Understanding Flutter Architecture**
- **Dart programming basics**

Flutter Widgets

- **Introduction to widgets**
- **Building layouts with widgets**
- **Understanding the widget tree and element tree**
- **Using material design widgets**

State Management in Flutter

- **Understanding state in Flutter**
- **Using setState() for stateful widgets**
- **Managing state using Provider package**
- **Implementing BLoC architecture for state management**

Navigation in Flutter

- **Introduction to navigation**
- **Building navigation between screens**
- **Creating named routes**
- **Implementing Drawer and Tab Navigation**

Network and Data Persistence in Flutter

- **Fetching data from REST APIs**
- **Parsing JSON data**
- **Storing data using shared preferences**
- **Using SQLite for data persistence**

Animations and Graphics in Flutter

- **Understanding animations in Flutter**
- **Using the animation controller and curves**
- **Animating widgets and properties**
- **Using custom graphics and animations**

Testing and Debugging in Flutter

- **Writing unit tests for Flutter apps**
- **Debugging and troubleshooting common issues**
- **Using Flutter DevTools for debugging**

Deployment of Flutter Apps

- **Generating APK and IPA files**
- **Publishing apps to Google Play Store and Apple App Store**
- **App Store Optimization**