

CERTIFICATE IN FULL-STACK DEVELOPMENT- FLUTTER

DURATION: 240 Hours TOTAL CREDITS: 8

COURSE SYLLABUS



Objective

The **CERTIFICATE IN FULL-STACK DEVELOPMENT - FLUTTER** makes a student proficient in using the Flutter framework to build both the front-end user interface (UI) and interact with the back-end services of a web application, essentially handling the entire development lifecycle from the visual design to server-side logic, all within the Flutter ecosystem; allowing them to create cross-platform web applications with a single codebase.

Exit Profile

- Complete Knowledge in Web UI & Mobile Application Development
- FLUTTER & its frameworks.
- Designing level knowledge

Career Path

- Full-Stack Web Developer
- Frontend developer
- Back-End Developer
- UI Designer
- Mobile Application Developer



Course Outline

Course Name:	CERTIFICATE IN FULL-STACK DEVELOPMENT- FLUTTER	Duration:	240 H
Module	Торіс	Dur.	Total Dur.
MODULE -1	Introduction to UI/UX designing	6 H	120 H
	HTML	22 H	
	CSS	22 H	
	JavaScript	30 H	
	JQuery	30 H	
	Bootstrap	10 H	
MODULE -2	Dart Programming	30 H	120 H
	Android UI Development using Flutter	60 H	
	Database operations using Flutter with SQLite Database	18 H	
	Introduction to Cloud Computing , Git & Github	12 H	
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Course in Detail

MODULE-1

INTRODUCTION TO UI/UX DESIGNING

- HTML
- CSS
- JavaScript
- JQuery
- Bootstrap
- Core Java Programming
- RDBMS -My SQL Server
- JDBC
- Servlets
- JSP
- Spring Frameworks
- Hibernate
- Introduction to Cloud Computing, GIT & GITHUB

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HTML

- Introduction
- Building Blocks of Web Frontend
- Introduction To HTML
- Basic HTML TAGS
- Advanced HTML Tags & concepts.

CSS

- Introduction to CSS
- CSS Basics
- CSS Advanced



JAVASCRIPT

- Introduction to DHTML
- **Javascript Basics**
- Javascript Advanced •
- Document Object Model •
- Manipulating DOM using JS
- DOM Events

JQUERY

- JQuery Basics
 - What is JQuery? •
- diffeourses. or Adding JQuery to a web page •
 - JQuery Syntax •
 - JQuery Selector
 - JQuery Events
- JQuery Advanced
 - HTML Manipulations •
 - Effects
 - Traversing •
 - Plugins •

BOOTSTRAP

- What is Bootstrap?
- Adding bootstrap to your projects.
- Different predefined Element styles
- The Grid System
- Forms
- Templates



MODULE-2

DART PROGRAMMING

- Introduction to Dart Programming •
- Features of dart •
- Syntax
- Data Types
- Variables
- Operators
- Loops
- Decision making •
- Collection Data Types ٠
- Maps
- Functions
- Dart symbols
- Dart enumeration •
- OOPS
- Dart generics
- Debugging

dit courses. on ANDROID UI DEVELOPMENT USING FLUTTER

- Introduction
- Installation
- **Flutter First Application** •
- Flutter Architecture •
- Flutter vs React native
- Dart Programming •
- Flutter Basics
- Flutter Widgets •



- Routing
- UI designing
- Advanced Concepts

DATABASE OPERATIONS USING FLUTTER WITH SQLITE DATABASE

- Introduction to SQLite Database
- Adding Dependencies
- Creating the data models
- Adding the imports
- Initialize the database
- Performing CURD Operations (Create, Update, Retrieve, Delete)

INTRODUCTION TO CLOUD COMPUTING, GIT & GITHUB

- What is cloud computing?
- Working of cloud Computing
- Advantages of Cloud Computing
- What is Git and Gitlab?
- Installing Git
- Git File Management
- Branching
- Pull Requests
- Common Workflows