



COURSE OUTLINE

WEB & MOBILE HYBRID APPLICATION DEVELOPMENT

MODULE #1

S.No	Topics
1	HTML 5
2	CSS
3	JavaScript
4	ES6
5	GitHub : Work with other developers using remote Git repositories
6	Project #01 Create a Website Using HTML, CSS ,JS
7	React JS
8	Firebase
9	Project #02 Create a Website Using React js
10	Upload your files to make the site go live

"These topics should give you a solid foundation and cover various aspects of each technology. If you have specific questions or need more information on any of these topics, feel free to ask!"



HTML 5

- Introduction to HTML5 and Web Design
- HTML-Basic Formatting Tags
- List in HTML
- Adding Web Links and Images
- Creating Tables
- HTML-Iframe
- Forms
- How to Create a Simple Web Page

CSS

- Introduction to Cascading Style sheet
- Adding Styles and Classes to Your Web Pages
- Borders, Backgrounds, and Floating Divs
- Selector's

Apply Font Formatting

- Text Display Control
- Page Background
- CSS Box Model

Positioning

Media Queries

Flex Box

CSS Framework

- Bootstrap 5



JavaScript

- Introduction
- Data Types in JavaScript
- Arithmetic operators in JavaScript
- Control Statement
- Arrays in JavaScript
- Math Object in JavaScript
- Document Object model in JavaScript
- EVENTS in JavaScript

ES6

- let, const and var
- Template Strings
- Fat arrow functions ,Set ,Map spread operators
- Destructuring

Project#1

- Project #01 Create a Website Using HTML, CSS ,JS

REACT JS

- Introduction to React
- Templating using JSX
- Components
- Working with state and props
- Rendering lists
- Event handling in React
- Working with Forms
- Performing CRUD Operations in ReactJS(Firebase)



COURSE OUTLINE

WEB & MOBILE HYBRID APPLICATION DEVELOPMENT

MODULE #2

S.No	Topics
1	TypeScript
2	Next.js
3	Node.js
4	Express.js
5	MongoDB
6	React Native
7	Project #02 Create a Website & Mobile Hybrid Application Using React js React Native
8	Upload your files to make the site go live

TypeScript

- Introduction to TypeScript
- Type Annotations and Type Inference
- Interfaces and Types in TypeScript
- Generics in TypeScript
- Enums and Union Types
- Advanced TypeScript Concepts
- Migrating from JavaScript to TypeScript



Next.js

- Getting Started with Next.js
- Routing in Next.js
- Server-Side Rendering (SSR) in Next.js
- Static Site Generation (SSG) in Next.js
- Data Fetching in Next.js
- Dynamic Imports and Code Splitting
- API Routes in Next.js
- Styling in Next.js
- Authentication in Next.js

Node.js

- Introduction to Node.js
- Node.js Modules and NPM
- Asynchronous Programming in Node.js
- Creating a RESTful API with Node.js
- File System and Streams in Node.js
- Error Handling in Node.js
- Middleware in Express.js

Express.js

- Introduction to Express.js
- Routing and Middleware in Express.js
- Creating RESTful APIs with Express.js
- Template Engines in Express.js
- Authentication and Authorization in Express.js
- Error Handling in Express.js
- File Uploads with Express.js



MongoDB

- Introduction to MongoDB
- CRUD Operations in MongoDB
- MongoDB Schema Design
- Aggregation Framework in MongoDB
- Indexing and Performance Optimization
- Working with Node.js and MongoDB
- Mongoose ODM

React Native:

- Getting Started with React Native
- Building User Interfaces in React Native
- Navigation in React Native
- State Management (Redux, MobX) in React Native
- Using Native Modules and Components
- Building for Android and iOS
- Debugging and Testing in React Native
- Performance Optimization

“These topics should give you a solid foundation and cover various aspects of each technology. If you have specific questions or need more information on any of these topics, feel free to ask!”