15 Days - Fundamentals of Web Development

Module 1: Introduction to Web Development (1 Day)

- Overview of web development: Frontend, Backend, Full Stack
- Tools and setup: VS Code, Browser Dev Tools, Git

Module 2: HTML Basics (3 Days)

- Structuring web pages with HTML
- Semantic HTML and best practices

Module 3: CSS Basics (3 Days)

- Styling web pages
- CSS Selectors, Box Model, and Flexbox

Module 4: Introduction to JavaScript (5 Days)

- Basics: Variables, Loops, Functions, and Events
- DOM Manipulation

Module 5: Mini Project (3 Days)

- Create a static website

30 Days - Frontend Development

Includes All 15-Day Modules

Module 6: Advanced CSS (5 Days)

- CSS Grid, Media Queries, and Responsive Design
- Introduction to CSS Frameworks (Bootstrap/Tailwind CSS)

Module 7: JavaScript Advanced Concepts (5 Days)

- ES6 Features (Arrow Functions, Classes, Promises)
- Event Listeners and Error Handling

Module 8: Introduction to Version Control (Git) (2 Days)

- Setting up Git and GitHub
- Basic commands and collaboration

Module 9: Introduction to Frontend Frameworks (React.js) (5 Days)

- Understanding Components and JSX
- State and Props

Module 10: Intermediate Project (3 Days)

- Responsive website with interactive features

45 Days - Full Frontend Development

Includes All 30-Day Modules

Module 11: Advanced JavaScript (5 Days)

- APIs and Fetching Data (AJAX)
- LocalStorage and SessionStorage

Module 12: Advanced React.js (10 Days)

- React Router and Hooks (useState, useEffect)
- Context API for State Management

Module 13: Project (5 Days)

- Dynamic website with API integration

60 Days - Full-Stack Foundations

Includes All 45-Day Modules

Module 14: Introduction to Backend Development (10 Days)

- Basics of Node.js and Express.js
- Setting up a server and handling requests

Module 15: Database Integration (5 Days)

- Introduction to MongoDB
- CRUD Operations with Node.js

Module 16: Backend and Frontend Integration (5 Days)

- Connecting React Frontend to Node.js Backend

Module 17: Project (5 Days)

- Build a small full-stack application

90 Days - Full-Stack Development

Includes All 60-Day Modules

Module 18: Advanced Backend Development (10 Days)

- Middleware in Express.js
- Authentication and Authorization (JWT)

Module 19: RESTful APIs (10 Days)

- Designing APIs
- API Testing with Postman

Module 20: Deployment and Version Control (5 Days)

- Deploying Applications to Heroku/Vercel
- Git Branching Strategies

Module 21: Advanced Project (10 Days)

- Full-stack application with user authentication

180 Days - Master Web Development

Includes All 90-Day Modules

Module 22: Advanced Frontend Techniques (15 Days)

- Redux for State Management

- Advanced Animations and Transitions

Module 23: Advanced Backend Concepts (15 Days)

- File Uploads and Streams
- WebSockets for Real-Time Communication

Module 24: DevOps Basics (10 Days)

- CI/CD Pipelines (GitHub Actions)
- Introduction to Docker

Module 25: Advanced Full-Stack Projects (30 Days)

- E-commerce Platform with Payment Integration
- Real-Time Chat Application

Module 26: Capstone Projects and Career Preparation (30 Days)

- Multiple projects based on real-world scenarios
- Building a professional portfolio
- Resume building and interview preparation