

Frontend Developer (ReactJs) 6 Months Course Syllabus

Course Description:

This comprehensive 6-month course is designed to equip aspiring front-end developers with the necessary skills to build modern, responsive, and user-friendly web applications. Through a combination of theory, hands-on projects, and practical exercises, students will learn HTML, CSS, JavaScript, popular frontend frameworks like Bootstrap and React.js, version control with Git, API testing with Postman, and essential UI design principles.

Course Outline:

Module 1: HTML

- Introduction to HTML
- HTML Tags and Attributes
- Semantic HTML
- HTML Forms
- HTML5 Features

Module 2: CSS

- Introduction to CSS
- CSS Selectors
- Box Model and Layout
- CSS Flexbox
- CSS Grid

Module 3: Bootstrap

- Introduction to Bootstrap
- Bootstrap Grid System
- Bootstrap Components (Navbar, Cards, Forms, etc.)
- Customizing Bootstrap
- Responsive Design with Bootstrap

Module 4: JavaScript

- Introduction to JavaScript
- JavaScript Syntax and Data Types
- DOM Manipulation
- Events and Event Handling
- JavaScript Functions and Scope
- ES6+ Features

Module 5: React JS

- Introduction to React JS
- Components and Props
- State and Lifecycle

- Handling Events
- React Router
- Redux Basics
- RestAPIs with React
- Advanced React Concepts

Module 6: Version Control

- Introduction to Version Control
- Git Basics
- Branching and Merging
- Working with Remote Repositories (GitHub, GitLab)
- Resolving Conflicts
- Best Practices in Version Control

Module 7: Postman

- Introduction to Postman
- Creating and Managing Requests
- Testing APIs
- Collections and Environments
- Mocking APIs
- API Documentation

Module 8: User Interface (UI) Design Principles

- Form Handling and Validation Strategies
- State Management Patterns
- Responsive Design Principles

Project Work:

Throughout the course, students will work on real-world projects to apply their learning and build a portfolio of frontend development projects.

Assessment:

- Regular quizzes and assignments to gauge understanding.
- Project evaluations to assess practical skills and application of concepts.
- Final project showcasing proficiency in frontend development.

Additional Resources:

- Recommended readings and online tutorials for further self-study.
- Guest lectures from industry experts to provide insights into industry practices and trends.

Prerequisites:

- Basic understanding of programming concepts and familiarity with using a computer and the internet.

Note:

The syllabus is subject to adjustments based on the pace of learning and the needs of the students.