



# FULL STACK WEB DEVELOPMENT

## Overview

The Full Stack Web Development Course is an intensive program designed to provide students with the essential skills to build modern, responsive, and dynamic websites and web applications. Covering both front-end and back-end development, the course equips learners with a solid foundation in web technologies such as HTML5, CSS3, JavaScript, PHP, and advanced frameworks like Bootstrap and Tailwind CSS. By the end of the course, students will have a comprehensive understanding of web development, enabling them to create user-friendly interfaces and functional web applications. Participants will also gain hands-on experience through practical projects, preparing them for careers as professional web developers.

## Outlines

Key Highlights of Web Development Course:

### Introduction to Web Development

- Overview of the web development process.
- Understanding client-side and server-side development.
- Introduction to web technologies and tools: text editors, browsers, and version control systems.
- **2. Web Tools and Technologies**
- Setting up the development environment (VS Code, Git, etc.).
- Understanding how web servers and browsers communicate.
- Familiarity with debugging tools and developer tools in modern browsers.

### 3. HTML5 (HyperText Markup Language)

- Understanding the structure of web pages.
- Core HTML elements: headings, paragraphs, lists, and tables.
- Semantic HTML: headers, footers, articles, and sections.

- Forms: inputs, buttons, and validations.
- Embedding multimedia: images, videos, and audio.

#### **4. CSS3 (Cascading Style Sheets)**

- Introduction to styling and designing web pages.
- CSS selectors, properties, and specificity.
- Responsive design with media queries.
- CSS animations and transitions.
- Flexbox and Grid Layout for modern web layouts.

#### **5. jQuery**

- Overview of jQuery and its role in simplifying JavaScript.
- DOM manipulation and traversal.
- Handling events and animations using jQuery.
- AJAX requests for dynamic content.

#### **6. Bootstrap**

- Introduction to the Bootstrap framework for responsive design.
- Grid system and layout customization.
- Pre-built components: navbars, modals, and carousels.
- Customizing themes with Bootstrap utilities.

#### **7. Tailwind CSS**

- Understanding the utility-first CSS framework.
- Creating responsive and modern designs using utility classes.
- Customizing Tailwind configurations for unique projects.

#### **8. JavaScript (JS)**

- Core JavaScript syntax and data types.
- DOM manipulation and event handling.
- Asynchronous programming with promises and async/await.
- Introduction to ES6+ features: arrow functions, destructuring, and modules.
- Basic algorithms and problem-solving techniques.

#### **9. PHP (Hypertext Preprocessor)**

- Introduction to server-side programming.
  - Setting up a local server (XAMPP, WAMP).
  - Working with forms and user inputs.
  - Connecting to a database (MySQL) and performing CRUD operations.
  - Understanding PHP sessions, cookies, and authentication.
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