

Web Design Training

Topics : [Courses](#)

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HTML5, CSS3, and JavaScript Course Syllabus

This syllabus covers **HTML5, CSS3, and JavaScript** from basic to advanced levels, suitable for front-end development.

Module 1: Introduction to Web Development

- Understanding Web Development (Front-End vs. Back-End)
- Setting Up Development Environment (VS Code)
- Overview of HTML, CSS, and JavaScript

Module 2: HTML5 (HyperText Markup Language)

- HTML Document Structure (<!DOCTYPE html>, <html>, <head>, <body>)
- HTML5 Elements and Tags (<header>, <footer>, <section>, <article>, etc.)
- Forms and Input Fields (<input>, <textarea>, <select>, <button>)
- HTML Tables (<table>, <tr>, <td>, <th>, <thead>, <tbody>)
- Multimedia Elements (<audio>, <video>, <canvas>)
- HTML5 APIs (Geolocation, Drag & Drop, Web Storage)

Module 3: CSS3 (Cascading Style Sheets)

- Introduction to CSS (inline, internal, external)
- Selectors (class, id, universal, attribute selectors)
- Box Model (Margin, Padding, Borders)
- CSS Positioning (static, relative, absolute, fixed)
- Flexbox and Grid Layout
- Responsive Design (Media Queries, Mobile-First Approach)
- CSS Transitions, Animations, and Keyframes
- Custom Fonts and Icons (Google Fonts, FontAwesome)
- Preprocessors (SCSS/SASS Basics)

Module 4: JavaScript Basics

- JavaScript Syntax and Data Types
- Variables (var, let, const)
- Operators and Expressions
- Conditional Statements (if-else, switch-case)
- Loops (for, while, do-while)
- Functions and Scope (function(), Arrow Functions)
- JavaScript ES6+ Features (Destructuring, Spread Operator, Template Literals)

Module 5: DOM (Document Object Model) Manipulation

- Understanding the DOM Tree
- Selecting Elements (getElementById, querySelector, etc.)
- Changing HTML Content and Attributes
- Event Handling (onclick, addEventListener)
- Creating and Removing Elements (appendChild, removeChild)
- Traversing the DOM (parentNode, nextSibling)

Module 6: Project: Building a Responsive Website

- Creating a Fully Functional Website
- Implementing HTML5, CSS3, and JavaScript Features
- Responsive Layout and Interactive Components

Final Project

- **Building a Web Application** (Portfolio, Blog, or Business Website)
- Integrating HTML, CSS, JavaScript, and External APIs
- Deploying the Website Online