

HTML, CSS & JavaScript Course Details

◆ Course Overview

This course teaches you the complete fundamentals of front-end web development using **HTML, CSS, and JavaScript**.

You will learn how to build websites from scratch, style them professionally, and add interactivity using real-world projects.

HTML (HyperText Markup Language)

◆ What You Will Learn

1. HTML Basics

- What is HTML?
- Setting up a webpage
- HTML document structure
- Headings, paragraphs, links
- Lists (ordered, unordered)
- Images & file paths

2. HTML Elements & Attributes

- Attributes & values
- Div, span, semantic tags
- Tables
- Forms (input, textarea, select, checkbox, radio)
- Buttons
- Audio & video tags

3. Semantic HTML

- Header, nav, main, footer
- Section & article
- Accessibility best practices

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4. HTML5 Features

- Canvas
 - Audio/Video controls
 - Form enhancements
 - New input types
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CSS (Cascading Style Sheets)

What You Will Learn

1. CSS Basics

- Inline, internal & external CSS
- Selectors (id, class, universal, attribute)
- Colors, borders, backgrounds

2. Layout & Positioning

- Box model
- Margin, padding & borders
- Display (block, inline, inline-block)
- Position (static, relative, absolute, fixed, sticky)

3. Typography & Styling

- Fonts & Google Fonts
- Text styling
- Shadows & gradients

4. Flexbox & Grid

- Flex containers & items
- Alignment, spacing & responsiveness
- CSS Grid rows & columns
- Building full layouts with Grid

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5. Responsive Design

- Media queries
- Mobile-first design
- Responsive images
- Fluid width layouts

6. CSS Animations & Effects

- Transition & transform
- Hover effects
- Keyframe animations

⚙ JavaScript (Programming for Web Interactivity)

◆ What You Will Learn

1. JavaScript Basics

- What is JavaScript?
- Variables & data types
- Operators
- Conditions (if/else)
- Loops

2. Functions & Events

- Creating functions
- Event listeners (click, change, submit)

3. DOM Manipulation

- Selecting elements (getElementById, querySelector)
- Changing HTML & CSS with JS
- Creating & deleting elements
- Form validation

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4. Arrays & Objects

- Storing & using data
- Looping through arrays

5. JavaScript Advanced Concepts

- LocalStorage
- JSON basics
- ES6 features (let, const, arrow functions)

6. Fetch API & Basic APIs

- Getting data from online APIs
- Displaying results in webpage



Real-World Projects

HTML Projects

- Resume page
- Contact form
- Image gallery

CSS Projects

- Modern landing page
- Portfolio website
- Responsive navigation bar

JavaScript Projects

- Calculator
- To-do list app
- Form validation
- Image slider
- Weather app using API

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Final Combined Project

- Fully functional **Responsive Website** (HTML + CSS + JavaScript)
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Tools You Will Use

- VS Code
 - Chrome Developer Tools
 - GitHub (optional)
 - Online API services
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Course Duration

- **4 to 6 weeks** (project-based learning)
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Who Can Join

- Students
- Beginners in web development
- Career changers
- Freelancers
- Anyone who wants to build websites