

# Complete HTML Course Outline

## Module 1: Introduction to HTML

- What is HTML?
- History and Evolution (HTML4, XHTML, HTML5)
- Understanding Browsers and Rendering
- Basic Structure of an HTML Document
- Writing Your First HTML Page
- HTML Editors (VS Code, Sublime Text, Notepad++)
- Viewing Source Code in a Browser

## Module 2: HTML Basic Elements

- Headings (<h1> to <h6>)
- Paragraphs (<p>)
- Line Breaks (<br>)
- Horizontal Rules (<hr>)
- Comments (<!-- comment -->)
- Special Characters (&nbsp;, &copy;, &lt;, etc.)

## Module 3: Formatting & Text Styling

- Bold (<b>) and Strong (<strong>)
- Italics (<i>) and Emphasized (<em>)
- Underline (<u>)
- Strike-through (<s> or <del>)
- Superscript (<sup>) and Subscript (<sub>)
- Preformatted Text (<pre>)

## Module 4: HTML Links & Navigation

- Anchor Tags (<a>) and href Attribute
- Absolute vs. Relative URLs
- Opening Links in a New Tab (target="\_blank")
- Link Styling with CSS
- Internal Links (id and name attributes)

## Module 5: HTML Images & Multimedia

- Adding Images (`<img>`) and `src` Attribute
- Alternative Text (`alt`)
- Image Formats (JPG, PNG, SVG, GIF, WebP)
- Responsive Images (`width`, `height`, `max-width`)
- Embedding Audio (`<audio>` tag)
- Adding Videos (`<video>` tag)
- Using External Media (YouTube, Vimeo)

## Module 6: HTML Lists

- Ordered Lists (`<ol>`)
- Unordered Lists (`<ul>`)
- Definition Lists (`<dl>`, `<dt>`, `<dd>`)
- Nested Lists
- Customizing Lists with CSS

## Module 7: HTML Colors

- Named Colors (`red`, `blue`, `green`, etc.)
- Hexadecimal Colors (`#ff0000`, `#00ff00`, `#0000ff`)
- RGB Colors (`rgb(255, 0, 0)`)
- RGBA Colors (`rgba(255, 0, 0, 0.5)`)
- HSL & HSLA Colors
- Applying Colors to Text, Backgrounds, and Borders
- Gradient Backgrounds

## Module 8: HTML Div & Layout

- What is a `<div>`?
- Block-Level vs. Inline Elements
- Grouping Elements Inside `<div>`
- Styling `<div>` with CSS
- `<div>` vs. `<section>` vs. `<article>`
- Using `<div>` for Layout with Flexbox and Grid
- Centering Elements Inside a `<div>`
- Creating a Simple Web Layout

## Module 9: HTML Tables

- Creating Tables (`<table>`, `<tr>`, `<td>`)
- Adding Table Headers (`<th>`)

- Merging Rows & Columns (`rowspan`, `colspan`)
- Table Borders and Styling
- Responsive Tables

## Module 10: HTML Forms & User Input

- Creating Forms (`<form>` tag)
- Input Fields (`<input>` types: text, password, email, number, etc.)
- Labels (`<label>`) and Placeholders
- Dropdown Lists (`<select>` and `<option>`)
- Checkboxes & Radio Buttons
- Textareas (`<textarea>`)
- Submit & Reset Buttons
- Form Validation (`required`, `pattern`, etc.)

## Module 11: HTML5 Advanced Features

- HTML5 Semantic Elements (`<header>`, `<nav>`, `<article>`, `<section>`, `<footer>`)
- `div` vs. `section`
- HTML5 Forms Enhancements (`datalist`, `output`, `progress`, `meter`)
- Geolocation API
- Local Storage & Session Storage
- Web Workers (Basic Introduction)

## Module 12: HTML & CSS Integration

- Inline CSS (`style` attribute)
- Internal Styles (`<style>` tag)
- External Stylesheets (`<link>` tag)
- Class & ID Selectors (`class` vs. `id`)
- Responsive Web Design Basics

## Module 13: HTML & JavaScript

- Introduction to JavaScript in HTML (`<script>` tag)
- Event Handlers (`onclick`, `onmouseover`, `onchange`)
- DOM Manipulation with JavaScript
- Basic Validation with JavaScript

## Module 14: HTML Accessibility & Best Practices

- What is Web Accessibility (A11Y)?
- Using ARIA Attributes

- Screen Readers & Semantic HTML
- Keyboard Navigation Best Practices
- Writing SEO-Friendly HTML

## Module 15: HTML Projects & Real-World Applications

- Simple Blog Page
- Portfolio Website
- Contact Form with Validation
- Responsive Web Page
- Creating a Landing Page

## Module 16: HTML Fonts & Typography

- Understanding Fonts in Web Design
- The <font> Tag (Deprecated) vs. CSS for Fonts
- Font Families in CSS (serif, sans-serif, monospace, etc.)
- Using the font-family Property in CSS
- Font Size and the font-size Property
- Font Weight and the font-weight Property
- Font Style and the font-style Property (italic, normal)
- Line Height and the line-height Property
- Text Alignment and the text-align Property
- Importing Web Fonts (Google Fonts, Adobe Fonts)
- @font-face Rule for Custom Fonts
- Responsive Typography with CSS (em, rem, vw, vh)
- Text Decoration and the text-decoration Property (underline, line-through)
- Letter Spacing and the letter-spacing Property
- Using the text-transform Property (uppercase, lowercase)
- Typography Best Practices (Legibility, Readability, Accessibility)

## Module 17: HTML Meta Tags & SEO

- What are Meta Tags?
- Importance of Meta Tags in Web Development
- Meta Charset (meta charset="UTF-8")
- Meta Description Tag (meta name="description")
- Meta Keywords Tag (meta name="keywords") (Deprecated but still useful in some cases)
- Meta Robots Tag (meta name="robots")
- Meta Viewport Tag for Responsive Design (meta name="viewport")
- Meta Author Tag (meta name="author")
- Meta Refresh and Redirect (meta http-equiv="refresh")
- Open Graph Meta Tags for Social Media Sharing
- Twitter Card Meta Tags
- Using Meta Tags to Improve SEO

- Common Mistakes with Meta Tags