



TOPIC: COURSE OUTLINE (HTML)

COURSE INSTRUCTOR: ABDULLAH MAHMOOD

Chapter 1: Introduction to HTML

- Overview of HTML
 - HTML5 vs. Older Versions
 - Basic Structure of an HTML Document
 - HTML Editors and Best Practices
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Chapter 2: HTML Document Structure

- `<!DOCTYPE>` Declaration
 - `<html>`, `<head>`, `<body>`
 - Meta Tags (`<meta charset="UTF-8">`, `<meta name="viewport">`)
 - Importance of `<title>` and `<base>` Tags
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Chapter 3: Text and Formatting Elements

- Headings (`<h1>` to `<h6>`)
 - Paragraphs (`<p>`)
 - Text Formatting (``, `<i>`, `<u>`, ``, ``)
 - Line Breaks and Horizontal Lines (`
`, `<hr>`)
 - Quotes (`<blockquote>`, `<q>`), Abbreviations (`<abbr>`), and Code Blocks (`<pre>`, `<code>`)
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Chapter 4: Lists in HTML

- Unordered Lists (``)
 - Ordered Lists (``)
 - Description Lists (`<dl>`, `<dt>`, `<dd>`)
 - Nesting Lists
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Chapter 5: Links and Navigation

- Anchor Tags ()
 - Opening Links in New Tabs (target="_blank")
 - Email (mailto:) and Telephone (tel:) Links
 - Bookmarking and Internal Links (id attribute)
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Chapter 6: Images and Multimedia

- Adding Images (, alt attribute)
 - Responsive Images (srcset, picture)
 - Image Formats (WebP, SVG, PNG, JPG)
 - Adding Audio and Video (<audio>, <video>, <source>)
 - Embedding External Media (YouTube, Maps, etc.)
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Chapter 7: Tables in HTML

- Creating Tables (<table>, <tr>, <td>, <th>)
 - Table Headers, Footers, and Captions (<thead>, <tfoot>, <caption>)
 - Spanning Rows and Columns (rowspan, colspan)
 - Making Tables Accessible (<scope>, <summary>)
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Chapter 8: Forms and Input Elements

- Form Basics (<form action="" method="">)
 - Input Fields (<input type="text">, email, password, number, etc.)
 - Checkboxes, Radio Buttons, and Select Menus
 - datalist, autocomplete, and Input Validation (required, pattern, min/max)
 - File Uploads and Hidden Fields
 - HTML5 Input Types (date, color, range, etc.)
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Chapter 9: HTML5 Semantic Elements

- Overview of Semantic HTML
 - Structural Elements (<header>, <footer>, <nav>, <section>, <article>)
 - <figure> and <figcaption> for Images
 - <aside> for Side Content
 - Importance of Semantic Tags for SEO
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Chapter 10: Metadata and SEO Optimization

- Meta Tags (<meta name="description">, <meta keywords>, <meta robots>)
 - Open Graph Tags for Social Media Sharing
 - Canonical URLs and Preventing Duplicate Content
 - Favicon (<link rel="icon" href="favicon.ico">)
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Chapter 11: HTML5 Storage and Offline Features

- localStorage and sessionStorage
 - <data> and <meter> for Displaying Data
 - <progress> for Loading Indicators
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Chapter 12: Accessibility in HTML

- ARIA Attributes for Better Accessibility
 - Screen Reader Compatibility
 - alt Text and Semantic HTML for Accessibility
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Chapter 13: Latest HTML Trends

- Web Components (<template>, <slot>, <shadow DOM>)
- Lazy Loading for Images (loading="lazy")
- Microdata and Schema Markup for SEO
- Integration with AI (Chatbots, Voice Assistants)
- HTML in Progressive Web Apps (PWAs)