

(Building Futures Through Digital Knowledge and Innovation)

Hyper Text Markup Language (HTML) (01 Month)

Syllabus

1: Introduction to HTML

- ✓ What is HTML?
- ✓ History and Evolution of HTML (HTML, HTML4, XHTML, HTML5)
- ✓ Structure of an HTML Document
- ✓ HTML Editors (Notepad++, VS Code, Sublime Text)
- ✓ Creating Your First Web Page
- ✓ Doctype Declaration and HTML Boilerplate

2: Basic HTML Tags

- ✓ <html>, <head>, <title>, <body>
- ✓ Text Formatting Tags:
- ✓ <h1> to <h6> – Headings
- ✓ <p> – Paragraphs
- ✓
 – Line Break
- ✓ <hr> – Horizontal Rule
- ✓ , <i>, <u>, , , <mark>, <small>, , <ins>, <sub>, <sup>
- ✓ Comments in HTML

3: HTML Elements & Attributes

- ✓ Block vs Inline Elements
- ✓ Global Attributes (id, class, style, title)
- ✓ Semantic vs Non-semantic Elements
- ✓ Grouping Content:
- ✓ <div>,
- ✓ Quotation Elements:
- ✓ <blockquote>, <q>, <cite>, <abbr>

4: Hyperlinks and Anchors

- ✓ <a> – Anchor Tag
- ✓ Absolute vs Relative Links
- ✓ Target Attribute (_blank, _self, _parent, _top)
- ✓ Linking to Email or Phone (mailto:, tel:)

5: Images and Media

- ✓ Tag and Attributes (src, alt, width, height)

- ✓ Image Formats: JPG, PNG, GIF, SVG, WebP
- ✓ Embedding Videos: <video> tag
- ✓ Embedding Audio: <audio> tag
- ✓ YouTube Video Embeds

6: Lists in HTML

- ✓ Unordered List () and
- ✓ Ordered List () and
- ✓ Description/List (<dl>, <dt>, <dd>)
- ✓ Nested Lists

7: HTML Tables

- ✓ <table>, <tr>, <td>, <th>
- ✓ Table Attributes (border, cellpadding, cellspacing)
- ✓ Table Caption
- ✓ Rowspan and Colspan
- ✓ Styling Tables with Inline CSS

8: HTML Forms

- ✓ Introduction to Forms
- ✓ <form> Element and action, method
- ✓ Input Elements:
- ✓ <input> types: text, password, email, number, checkbox, radio, date, file, hidden, range, color, etc.
- ✓ <textarea>, <select>, <option>, <label>, <fieldset>, <legend>, <button>
- ✓ Form Validation (Required, Pattern, Min/Max, Placeholder)

9: HTML5 Semantic Elements

- ✓ Introduction to Semantic HTML
- ✓ <header>, <footer>, <nav>, <section>, <article>, <aside>, <main>, <figure>, <figcaption>

10: Embedding External Content

- ✓ <iframe> – Embed Another Web Page
- ✓ Embedding Google Maps, Calendars, PDFs
- ✓ Social Media Embeds

11: HTML APIs and Advanced Tags

- ✓ HTML5 Geolocation API (Introduction Only)
- ✓ Drag and Drop API (Concept Only)
- ✓ Canvas API Overview
- ✓ Web Storage API (localStorage, sessionStorage – Introduction)

12: HTML Accessibility and SEO Basics

- ✓ Accessibility: aria- attributes, Alt Text, Screen Readers
- ✓ Semantic Tags for SEO
- ✓ Meta Tags: description, keywords, viewport, robots
- ✓ Favicon Integration

13: Project and Practical Implementation

- ✓ Creating a Personal Portfolio Web Page
- ✓ Designing a Contact Form
- ✓ Building a Basic Landing Page
- ✓ Practice with Live Server / Browser Preview

14: Hosting and Deployment

- ✓ Folder Structure for Web Projects
- ✓ Exporting Your HTML Project
- ✓ Hosting Options: GitHub Pages, Netlify (Introduction)
- ✓ Introduction to Domain and Hosting (Basic Deployment Concept)
- ✓ Bonus: Integrating with CSS & JavaScript
- ✓ Inline, Internal, and External CSS in HTML
- ✓ Embedding JS with <script> tag
- ✓ Using CSS and JS Files in HTML