

Web Development Syllabus

HTML (Hyper-Text Markup Language)

Module 1: Introduction to Web Development

- ✓ Overview of Web Development
 - What is Web Development?
 - Front-End vs Back-End Development
 - Full-Stack Development
- ✓ Setting Up the Environment
 - Tools: Code Editors (VS Code, Sublime Text, etc.)
 - Installing Web Browsers and Developer Tools

Basics of HTML

- ✓ Introduction to HTML
 - What is HTML?
 - History and Evolution of HTML
- ✓ Structure of an HTML Document
 - <!DOCTYPE> Declaration
 - <html>, <head>, <body> Tags
- ✓ Basic HTML Elements
 - Text Elements: <p>, <h1> to <h6>,
 - Links: <a> and Attributes (href, target)
 - Images: and Attributes (src, alt)

✓ **HTML Attributes**

- Global Attributes (id, class, style, etc.)
- Event Attributes (onclick, onmouseover, etc.)

Intermediate HTML

✓ **Lists**

- Ordered Lists:
- Unordered Lists:
- Nested Lists

✓ **Tables**

- Creating Tables with <table>, <tr>, <td>, <th>
- Adding Captions with <caption>
- Merging Cells with rowspan and colspan

✓ **Forms**

- Input Fields: <input> Types (text, password, checkbox, radio, etc.)
- Labels: <label>
- Buttons: <button> and <input type="submit">
- Dropdowns: <select> and <option>
- Textareas: <textarea>
- Form Attributes (action, method, enctype)

✓ **Advanced HTML**

✓ **Semantic HTML**

- Understanding Semantic Tags (<header>, <footer>, <article>, <section>, <aside>, <nav>)
- Importance of Semantic HTML for Accessibility and SEO

✓ **Multimedia Elements**

- Adding Audio: <audio> and Attributes (controls, autoplay)
- Adding Video: <video> and Attributes (controls, autoplay, loop)
- Embedding Content: <iframe> for YouTube Videos, Google Maps, etc.

✓ **HTML5 Features**

- Data Attributes (data-*)
- Inline SVGs and <canvas> for Graphics