## 🕉️ Cover Page

**Course Title:** HTML – The Foundation of Web Development
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## Introduction

HTML (HyperText Markup Language) is the backbone of all web pages. It defines the structure and layout using elements enclosed in angle brackets.

## 🔤 HTML Syntax and Structure

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>Hello World</h1>
```

```
    </body>
</html>
```

## ☪HTML Boilerplate

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Document</title>
</head>
<body>

</body>
</html>
```

## ⁉️HTML Elements and Tags

- Opening tag: `<p>`
- Closing tag: `</p>`
- Self-closing tag: `<br />` , `<img />`

## 👀Headings, Paragraphs, and Comments

```html
<h1>Main Heading</h1>
<p>This is a paragraph.</p>
<!-- This is a comment -->
```

- Headings: `<h1>` to `<h6>`

## Attributes

```html
<a href="https://aethercode.com" target="_blank">Visit</a>
<img src="logo.png" alt="Logo" width="100" />
```

## ✅Hyperlinks and Anchors

```html
<a href="https://example.com">Click here</a>
<a href="#section2">Jump to Section 2</a>
```

## 有Images and Media

```html
<img src="image.jpg" alt="Sample Image" />
<video controls>
  <source src="movie.mp4" type="video/mp4" />
</video>
```

## ☯Lists – Ordered & Unordered

```html
<ul>
  <li>HTML</li>
  <li>CSS</li>
</ul>

<ol>
  <li>Step One</li>
  <li>Step Two</li>
</ol>
```

## 🟡Tables

```html
<table>
  <tr><th>Name</th><th>Age</th></tr>
  <tr><td>Alice</td><td>22</td></tr>
</table>
```

## 🟡Forms and Inputs

```html
<form action="submit.php" method="post">
  <label>Name:</label>
  <input type="text" name="username" required />
```

```
    <input type="submit" value="Submit" />
</form>
```

## Semantic HTML

- `<header>` , `<footer>` , `<main>` , `<nav>` , `<section>`
- Improves accessibility and SEO

## ✔️HTML5 Features

- Native video/audio tags
- Semantic tags
- Input types: `email` , `date` , `range`
- `localStorage` , `sessionStorage`

## ✅Best Practices

- Use proper nesting and indentation
- Use semantic tags
- Always include `alt` on images
- Use external CSS and JS

## ✅Summary

HTML forms the structural foundation of any web page. With semantic enhancements and powerful media support, HTML5 is essential for modern development.

*Next: Style it with CSS – bring life to your structure.*

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