

Syllabus for Introduction to Web Technologies (HTML & CSS)

Course Description: This course provides a comprehensive introduction to HTML (Hypertext Markup Language), the foundational language for creating web pages and an in-depth introduction to CSS (Cascading Style Sheets), the language used to style and layout web pages.

Module 1	1.0 Basics in Web
	<ul style="list-style-type: none">• What is Web Technologies• What is World Wide Web• Web page & Website• URL(absolute vs. relative) ,Domain, Http vs. https• Editors
Module 2	2.0 Introduction to HTML
	<ul style="list-style-type: none">• What is HTML• HTML Documents• Basic structure of an HTML document & layout• Heading-Paragraphs• Comment• Line Breaks• HTML Tags and attribute (href, src, lang, style, class, id etc.)• Colors (RGB, predefined name, HEX)
Module 3	3.0 Elements of HTML
	<ul style="list-style-type: none">• Introduction to elements of HTML• Working with Text and text formatting tags (b, strong, small etc)• Block & Inline, div• Working with Lists, Tables (, , ,<dl>, <dt>, <dd>,<table>, <tr>, <th>, <td>)• Character entities (&copy;) & symbol entities (&beta;)• Links and Navigation• Develop a multi-page website with navigation links.• Working with Hyperlinks, Images and Multimedia• Working with Forms, Form elements and controls.• HTML and CSS Integration
Module 4	4.0 Introduction to Cascading Style Sheets
	<ul style="list-style-type: none">• Overview of CSS• CSS syntax (selector {property: value;})• Selectors (class, id, element, group, universal, pseudo etc.)• Inline, Internal, and External Stylesheets• CSS Specificity• CSS !important Rule• Basic Styling (color, fonts, text alignment, Background)• Understanding the Box Model (content, padding, border, margin)• Box Sizing (box-sizing property)• CSS Combinators• CSS Links• CSS Opacity / Transparency• CSS Dropdowns

	<ul style="list-style-type: none"> • Work with block elements and objects • Work with Lists and Tables
Module 5	5.0 Layout Techniques
	<ul style="list-style-type: none"> • Display Property (block, inline, inline-block, none) • Positioning (Static, Relative, Absolute, Fixed, Sticky) • CSS Overflow • z-index Property • Float • Introduction to Flexbox • Flex Container and Flex Items • Flex Properties (display: flex, flex-direction, justify-content, align-items, flex-grow, flex-shrink) • Introduction to CSS Grid • Grid Container and Grid Items
Module 6	6.0 Styling Text and Fonts
	<ul style="list-style-type: none"> • Font Properties (font-family, font-size, font-weight, font-style, line-height) • Web Fonts (e.g., Google Fonts) • Text Decoration and Alignment • CSS Shadow Effects
Module 7	7.0 Advanced Selectors and Pseudo-Classes
	<ul style="list-style-type: none"> • Advanced CSS Selectors (attribute, pseudo-class, pseudo-element) • Common Pseudo-Classes (:hover, :focus, :nth-child, :first-child) • Pseudo-Elements (::before, ::after)
Module 8	8.0 CSS Transitions and Animations
	<ul style="list-style-type: none"> • CSS Transitions (transition property) • CSS Animations (@keyframes, animation property)
Practice	<ol style="list-style-type: none"> 1. Create a simple HTML document with headings, paragraphs, and basic formatting with an attractive background color, text color and image etc. (use internal css). 2. Create your class routine using table tag. 3. Use External CSS to format your class routine as you created. 4. Create a registration form with various input types and validation. 5. Create a Simple Animations and Transitions