NIELIT Virtual Academy
O Level Module-02 (M2-R5.1)

O Level-Module-02 (M2-R5.1-Web Designing and Publishing)

Objective

This module is designed to start web designing, irrespective of knowledge currently the students have in this area. The businesses, nowadays, are heavily relying on web-based applications. The purpose of this module is to provide skill to students in designing layouts of web sites. By the end of this module, students will be able to describe the structure and functionality of the World Wide Web, create web pages using a combination of HTML, CSS, and JavaScript and Angular JS. The students will also learn how to design and integrate multimedia objects in web site. Further, the student will learn how web sites are published. After completing the module, the student will be able to:

- ✓ Design and create effective web pages
- ✓ Integrate graphics in web pages
- ✓ Integrate various tools and techniques like HTML, CSS, JavaScript, Angular JS etc.
- ✓ Design and edit images using tools
- ✓ Embed the images in web pages

Methodology:

- ✓ **Video Lecture with text contents**
- ✓ **24x7 Availability**
- ✓ **Content Access through e-learning portal**
- ✓ **Covers both Theory & Practical**
- ✓ **Doubt clearing session for all units.**
- ✓ **Sample paper practice.**

Registration Link: http://nva.nielit.gov.in

***For NIELIT O Level Registration and Examination, please contact Course coordinator:
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Module: Web Designing & Publishing(M2-R5.1)	
Introduction to Web Design	
Unit-01	• **Introduction of Internet, WWW, Website, Working of Websites, Webpages, Front End, Back End**
	• **Client and Server Scripting Languages, Responsive Web Designing, Types of Websites (Static and Dynamic Websites)**
Editors	
Unit-02	• **Downloading free Editors like Notepad++, Sublime Text Editor**
	• **Making use of Editors, File creation and editing, saving.**
HTML	
Unit-03	• **HTML: Introduction, Basic Structure of HTML, Head Section and Elements of Head Section,**
	• **Formatting Tags: Bold, Italic, Underline, Strikethrough, Div, Pre Tag Anchor links and Named Anchors Image Tag, Paragraphs, Comments,**
	• **Tables: Attributes –(Border, Cellpadding, Cellspacing , height , width), TR, TH, TD, Rowspan, Colspan Lists : Ordered List , Unordered List , Definition List,**
	• **Forms, Form Elements, Input types, Input Attributes, Text Input Text Area, Dropdown, Radio buttons , Check boxes, Submit and Reset Buttons, Frames: Frameset, nested Frames.**
	• **HTML 5 Introduction, HTML5 New Elements: Section, Nav, Article, Aside, Audio Tag, Video Tag,**
	• **HTML5 Form Validations: Require Attribute, Pattern Attribute, Autofocus Attribute, email, number type, date type, Range type, HTML embed multimedia, HTML Layout, HTML Iframe**
Cascading Style Sheets (CSS)	
Unit-04	• **Introduction to CSS, Types of CSS**
	• **CSS Selectors: Universal Selector, ID selector, Tag Selector, Class Selector, Sub Selector, Attribute Selector, Group Selector**
	• **CSS Properties: Back Ground properties, Block Properties, Box properties, List properties,**
	• **Border Properties, Positioning Properties,**
	• **CSS Lists CSS Tables**
	• **CSS Menu Design CSS Image Gallery**
CSS Framework	
Unit-05	• **Web Site Development using W3.CSS Framework, W3.CSS Intro, W3.CSS Colors, W3.CSS Containers, W3.CSS Panels,**
	• **W3. CSS Borders, W3.CSS Fonts, W3.CSS Text,**
	• **W3.CSS Tables, W3.CSS List, W3.CSS Images**
	• **W3.CSS Grid**
JavaScript and AngularJS	
Unit-06	• **Introduction to Client-Side Scripting Language, Variables in Java Script**

	• **Operators in JS**
	• **Conditions Statements, JS Popup Boxes**
	• **JS Events, Basic Form Validations in JavaScript**
	• **Introduction to Angular JS: Expressions**
	• **Modules and Directives**
Photo Editor	
Unit-07	• **Features of Photo Editing: Tools: Selection Tools, Paint Tools ,Transform Tools,**
	• **Text Tool ,Layers, Brightness/ Contrast Improve Colors and tone, Filters**
Web Publishing and Browsing	
Unit-08	• **Overview, SGML (Standard Generalized Markup Language), Web hosting Basics, Documents Interchange Standards, Components of Web Publishing**
	• **Web Page Design Considerations and Principles, Search and Meta Search Engines, WWW, Browser, HTTP, Publishing Tools.**