

DEPARTMENT OF LIFELONG LEARNING

SYLLABUS FOR SESSION 2026-27

CERTIFICATE COURSE IN WEB DESIGNING (SIX-MONTH DURATION)



GURU NANAK DEV UNIVERSITY, AMRITSAR

The **Certificate Course in Web Designing** is being run under the **Department of Lifelong Learning, Guru Nanak Dev University, Amritsar**. The course spans a duration of six months. The admission to this course is held twice a year and Examination will be held once at the end of course after six months (June and December). After successful completion of the course and passing the final examination, a candidate shall be awarded a Certificate Course in Web Designing.

Note:

- **Copyrights are reserved.**
- **Nobody is allowed to print it in any form.**
- **Defaulters will be prosecuted.**

PROGRAMME OBJECTIVES

The main objectives of this course are to:

- Provide fundamental knowledge of how the Internet and World Wide Web operates as a global information system.
- Develop a strong foundation in HTML to create well-structured webpages.
- Provide fundamental knowledge to structure the content semantically for accessibility and SEO.
- Utilize the “Golden Rules of Web Design” to create user-friendly and visually pleasing Websites using CSS3 styling techniques.
- Train students to implement JavaScript logic to create dynamic content, handle user events and perform client-side form validations.

PROGRAMME OUTCOMES

Upon successful completion of this six-month regular course, students will be equipped with the technical skills necessary to pursue a variety of professional pathways in the digital industry:

- Junior Front-End Developer in MNCs
- UI (User Interface) Designer
- Web Layout Designer
- Web Developer
- Work as a Freelancer Web Designer
- CMS Specialist
- Software Technical Writer

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ORDINANCES

1) Duration of Course: -

- a) Duration of the Course shall be One Year. Examination will be held once at the end of course after One Year as per GNDU schedule.

2) Eligibility: -

- a) Only for Girls.
- b) The candidate who has passed 12th Class examination with minimum 35% marks.

3) Mode of Admission:

- a. The admission will be made by a committee constituted by the Worthy Vice-Chancellor strictly on the basis of the merit of the candidates in 12th class.
- b. If any of the admitted student remains absent consecutively for 15 working days without prior information and permission of heading authority from the commencement of the course, the name of such candidate shall be struck off from the rolls of the department and the next candidate on the waiting list in order of merit of the respective course shall be admitted in his/her place with the permission of the Director of the department.

4) Attendance Instructions:

- a. The students admitted to One Year Diploma/Six Month Certificate Courses, who remain absent consecutively for fifteen working days during the duration of the course without any information to the department their name(s) shall be struck off from rolls of the department with the permission of Dean Academic Affairs.
- b. The students admitted in One Year Diploma, if they attain less than 25% of the total attendance in six months their name(s) shall be struck off from rolls of the department with the permission of Dean Academic Affairs.
- c. The students admitted in six-month certificate courses, if they attain less than 25% of total attendance in three months, the name(s) of such students shall be struck off from rolls of the department with the permission of Dean Academic Affairs.
- d. Attended not less than 75% of the full course of lectures delivered and practical arranged for the class.
- e. The Director of the department shall have the power to condone shortage of lectures in each paper up to 15% of total taken separately.

5) Fees:

According to the schedule, every candidate shall pay such fees to the university, as per university rules.

6) General Instructions: -

- a. He/ She bears good moral character.
- b. The examination shall be held in accordance with the syllabus prescribed by the Department from time to time.
- c. The examination shall consist of Practical and Exhibit Display.
- d. The Practical paper shall be set by examiner on the spot.

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- e. The medium of instruction/examination shall be English/Punjabi/Hindi in general.
- f. The marks of exhibit display shall be based on House Test and performance of the students.
- g. The marks of exhibit display shall be submitted to the Director of the Department fifteen days before the commencement of the examination.
- h. Minimum number of marks required to pass the examination shall be 35% in each Practical/Exhibit Display separately.
- i. If the candidate Absent/Fails in one or more Practical Examination her result shall be declared Fail.
- j. The result shall be declared and published by the Department.
- k. The successful candidates shall be awarded division according to the following criteria: -
 - (i) Those who obtain 60% or more marks – First division.
 - (ii) Those who obtain 50% or more but less than 60% marks – Second Division
 - (iii) Those who obtain 35% or more marks but less than 50% - Third Division
- l. Each successful candidate shall be awarded a Certificate Signed by the Director of the Department showing the division and the Aggregate Marks obtained.
- m. Fee for issuing of duplicate certificate shall be decided from time to time by the approval of the worthy Vice-Chancellor.

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CRITERIA FOR ADMISSION

The Committee makes the following recommendations after deliberations: -

1.	Name of the Course	Certificate Course in Computer Basic Concepts			
2.	Duration	Six Months			
3.	Commencement of Course	July & January Every Year			
4.	Eligibility	10+2 pass female candidates from Punjab School Education Board or its equivalent.			
5.	Venue	Department of Lifelong Learning, Guru Nanak Dev University, Amritsar.			
6.	No. of Seats	40 seats			
7.	Mode of Admission	(i) The admission will be made by a committee duly constituted by the worthy Vice-Chancellor strictly on the basis of the merit of the candidates in 10+2. (ii) If any of the admitted student remains absent consecutively for fifteen days without prior information and permission of the heading authority, his/her name shall be struck off from the rolls of the Department and the next candidate on the waiting list in order of merit of the respective course shall be admitted in his/her place with the permission of the Director of the Department.			
8.	Fee Structure	Rs.13150/-			
	Total Fee (July 2026 – December 2026) (January 2027-June 2027)	Rs.13150/ which includes: - (To be deposited at the time of Admission) Admission Fee = Rs. 2200/- Examination Fee = Rs.1400/- Tuition Fee: Rs. 1550 X 6 Months = Rs.9300/- Identity Card Fee = Rs.250/- The admission with late fee of Rs.800/- may be made within a week from the date of interview with the permission of the Director of the Department.			
9.	Late fee at the time of admission	July 2026 to Dec 2026		Jan 2027 to June 2027	Fees
		May 8 th 2026 to July 31 th 2026		Jan 1 st 2027 to Jan 29 th 2027	Nil
		Aug 3 rd 2026 to Aug 11 th 2026		Feb 2 nd 2027 to Feb 11 th 2027	Nil
		Aug 12 th 2026 to Aug 20 th 2026		Feb 12 th 2027 to Feb 19 th 2027	RS. 3000/-
		Aug 21 st 2026 to Aug 31 st 2026		Feb 23 rd 2027 to Feb 26 th 2027	RS. 4000/-
		Sep 1 st 2026 to Sep 10 th 2026		Mar 2 nd 2027 to Mar 10 th 2027	RS. 6000/-
		Sep 11 th 2026 to Sep 18 th 2026		Mar 11 th 2027 to Mar 19 th 2027	RS. 9000/-
		Within 15 Days from the date of closing of admission.			RS. 10000/-
10.	Review of Course of Reading	The syllabus committee constituted by the worthy Vice-Chancellor will review the course of reading for the session.			
11.	Conduct of Examination Evaluation & Award of Certificate.	To be decided with the approval of worthy Vice-Chancellor.			

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SCHEME OF STUDY AND EXAMINATION

	SCHEME OF STUDY		SCHEME OF EXAMINATION	
Course Code	Name of Paper	Credits/ Hrs. Per week	Max. Marks	Examination Hrs.
WD051	Paper-I (Theory) Web Designing Concepts	8 Hrs.	75	3 Hrs.
WD052	Paper-II (Practical) Practical Approach to Web Designing	8 Hrs.	100	4 Hrs.
WD053	Project	2 Hrs.	50	
WD054	Exhibit/Display	2 Hrs.	25	
	Total		250	

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PAPER – I (Theory)
WD051: WEB DESIGNING CONCEPTS

Time: 3Hours.

Max Marks: 75

Instructions for the Paper Setters:

The paper setter is required to set 9 questions in all and the students are required to attempt 05 questions. First question is compulsory and consists of 15 short answer type questions of one mark each which will be from entire syllabus. Section “A”, “B”, “C”, “D” consists of 2 questions. Each student is required to attempt 1 question from every section and all questions carry 15 marks each.

Course Objectives:

- To provide students with a comprehensive theoretical foundation of the web ecosystem.
- To understand the fundamentals of the Internet to know how the data moves from a server to a user’s screen.
- To help students in identifying their preferred career path by defining the distinct responsibilities of a Web Designer and Web Developer.
- To structure web content using HTML elements for text, images, list, tables, and forms.
- To understand the use of various CSS styling techniques to improve the appearance of a website.
- To implement JavaScript features to include interactivity and dynamic behavior to web pages.

SECTION-A

BASICS OF WEB DESIGN

Introduction to Internet, Brief History of internet, World Wide Web, Introduction to Web Technology, Careers in Web Designing or Job Roles, Introduction to Website and its working, Types of Websites (Static and Dynamic Websites), Fundamental Principles of Web Designing, Difference Between Web Designer and Web Developer.

SECTION-B

HTML AND HTML 5

Introduction to HTML, Basic structure of HTML Document, creating and Saving HTML document, HTML tags such as header tags, Body tag and their attributes, font tags and attributes, paragraph formatting tag, list tags (order and unordered list tags) span, hyperlinks, image tag and its attributes, frames, tables, form tags and its attributes etc. Introduction to HTML5, Advance features of HTML5.

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SECTION-C

CASCADING STYLE SHEETS

Introduction to Cascading Style Sheets and its types (Inline, Internal and External), CSS for Website Layout and Print Layout, explain different types of CSS selectors, CSS properties and types of CSS properties (Background Properties, Block Properties, Box Model Properties, List Properties, Border Properties, Positioning Properties).

CASCADING STYLE SHEETS (CSS 3.0)

Introduction to CSS3, and its feature, properties of CSS 3.0.(CSS Background properties, Text-Shadow Property, Text-Stroke Property, CSS Rounded Corners, Border Images, Border shadow, CSS Gradients, CSS3 properties in Practical Layout.

SECTION-D

JAVASCRIPT

Introduction to Client-Side Scripting language, Introduction to Java Script, Types of JavaScript, Variables, Operators, Conditions Statements (If, If Else, Switch), Java Script Loops (For Loop, While Loop, Do While Loop), JS events, arrays, functions, string, Introduction to DOM.

Course Outcomes:

After completion of this paper, students will be able to:

- | |
|---|
| <ul style="list-style-type: none">• Define the concept of World Wide Web and Internet.• Create structured webpages using proper HTML tags.• Add various styling techniques to the websites using CSS.• Build highly interactive user interfaces that respond instantly to clicks, scrolls, keyboard inputs, and form submissions.• Create secure and user-friendly forms that validate information on the client side, providing immediate feedback to the users. |
|---|

Reference Books:

1. Sharma, A. and Gupta. A. Fundamentals of Internet Applications, Lakhanpal Publishers, 2nd Edition, 2019.
2. Lemay, L., Mastering HTML, CSS & JavaScript Web Publishing, BPB Publication ,2018
3. Jain, S., Web Designing and Development Training Guide, BPB Publication, 2017.
4. Andrew, F., Adobe Photoshop class room in book, Adobe Press,2020

PAPER – II (PRACTICAL)
WD052: PRACTICAL APPROACH TO WEB DESIGNING

Time: 4Hrs.

Max. Marks: 100

Instructions for the paper Setters:

The paper will be set on the spot.

Course Objectives:

- | |
|---|
| <ul style="list-style-type: none">• To master basic HTML tags and frame implementation.• To develop forms using various input types (Text, Checkbox, Radio), selection menus.• To understand the use of Cascading Stylesheets to manage layouts, color schemes and overall visual appeal.• To master use of modern HTML5 semantic tags.• To implement core programming concepts of JavaScript for real-time web-design. |
|---|

BASIC DESIGNING

Creation of web page design, navigation bar, home page layout in a real-time designing.

HYPER TEXT MARKUP LANGUAGE

Basic Structure of HTML, Head Section and Elements of Head Section, Meta Tags, External Link Tags, HTML Structure Tags, Table Tag, Div Tag, Frames, Content / Media Tags, Header Tags, Paragraph, Span, Pre Tags, Anchor Links and Named, Anchors, Image Tags / Image Hotspots, Object Tag/embed tag, frame Tags, Working with Forms, Form Tag, POST and GET Method, Text Input, Text Area, Checkbox, Image Input and Radio, Select Option, Option Group, File Upload and Hidden Fields, Submit Button, Reset Button.

HTML5

Introduction to HTML5, New Structure Tags, Section, Navigation, Article, Aside, Header, Footer, New Form Tags, search, email, New Media Tags, Audio Tag, Video Tag, designing a Layout using HTML5 features.

CASCADING STYLE SHEET

Introduction to Cascading Style Sheets, different Style Sheets (In line, Internal and External style sheets), implementation of CSS in Website Layout and Print Layout, how we can use different Types of selector in HTML document (Universal Selector Type Selector, Class Selector, ID Selector, Child Selector, Descendant Selector, Adjacent Sibling Selector, Attribute Selector).CSS properties (Background Properties, Block Properties, Box Model Properties, List Properties, Border Properties, Positioning Properties and how these Properties are useful in Real-time Designing.

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JAVASCRIPT IN REAL-TIME

Implementation of JavaScript, Variables, Operators, Conditions Statements (If, If Else, Switch), Java Script Loops (For Loop, While Loop, Do While Loop), JS Popup Boxes (Alert, Prompt, Confirm), JS Events, Unload, on unload, on submit, On Focus, on change Event, on blur, Event, on mouse over, on click Events, JS Arrays, Working with Arrays, JS Objects, JS Functions in real-time designing.

Course Outcomes:

After completion of this section, students will be able to:

- Create the “skeleton” of a website using both traditional and modern HTML5 semantics.
- Manage the visual presentation of a website by mastering the implementation of inline, Internal and External Stylesheets.
- Embed and manage various media formats including images, audio, and video to create a rich multimedia user experience.
- Develop “programmer thinking” by mastering core concepts like variables, datatypes, loops and conditional statements.
- Build secure and user-friendly forms that validate information on the client-side, providing immediate feedback to users.

REFERENCE BOOKS:

1. Sharma, A. and Gupta A. Fundamentals of Internet Applications, Lakhanpal Publishers, 2nd Edition
2. Lemay, L., Mastering HTML, CSS & JavaScript Web Publishing, BPB Publication, 2018.
3. Jain, S., Web Designing and Development Training Guide, BPB Publication.
4. Andrew, F., Adobe Photo Shop class room in book, Adobe Press,2020.

Practical HTML Assignment Questions

1. Basic Structure

Q1: Create a simple HTML page with the following elements:

- A title in the browser tab called “My First Web Page”
- A heading that says “Welcome to My Website”
- A paragraph with a short introduction about yourself
- Use <html>, <head>, <title>, <body>, <h1>, and <p> tags

Create a page that includes the following elements.

- Within the head section create a web page title (displayed in title bar of browser window): My Favorite Things
- Use a color for the background for the body.
- A *centered heading* (use the largest heading size) of: My Favorite Things (remember to turn off centering!)
- Include a *horizontal rule* underneath the heading that is colored, centered, 75% of the screen’s width and has a size of 8.

2. Formatting Text

Q2: Format a paragraph using the following tags:

- Bold a few words using or
- Italicize some words using <i> or
- Underline some text using <u>
- Create a line break using

It is my **First HTML** Assignment. I am excited to learn HTML, and i want to make career in **web designing**.

Introduction to HTML

HTML (*Hypertext Markup Language*) is used to create document on the World Wide Web. *It is simply a collection of certain key words called "Tags" that are helpful in writing the document to be displayed using a browser on Internet.* HTML was developed by **Tim Berners-Lee** in 1992.

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3. Lists

Q3: Create a list of your 5 favorite foods:

- Use an **unordered list** () and list items ().
- Then, create an **ordered list** () for your daily routine.

Preceding Text

- I. List Item 1
 - a. Nested Item 1.1
 - b. Nested Item 1.2
- II. List Item 2
 - 1. Nested Item 2.1
 - 2. Nested Item 2.2
 - o Nested Item 2.2.1
 - o Nested Item 2.2.2
 - Nested Item 2.2.2.1
 - Nested Item 2.2.2.2
 - o Nested Item 2.2.3
 - 3. Nested Item 2.3
- III. List Item 3
 - Nested Item 3.1
 - Nested Item 3.1
 - Nested Item 3.1

4. Links and Images

Q4: Create a web page that includes:

- A link to your favorite website using .
- An image of your choice using with proper alt text.
- Make the image clickable to open the link.
- On clicking the image on page first.html, that image should behave like an image as a link and should be opened in another page i.e. second.html.





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5. Tables

Q5: Create a table with the following:

- A table with 3 rows and 3 columns.
- Use <table>, <tr>, <th>, and <td>.
- Include a heading row with bold column titles.

PHOTOS	CONTENTS							
	Content 3	Content 4						
	Content 5	Content 6						
	<table border="1"><tbody><tr><td style="text-align: center;">1</td><td style="text-align: center;">2</td></tr><tr><td style="text-align: center;">3</td><td style="text-align: center;">4</td></tr><tr><td style="text-align: center;">5</td><td style="text-align: center;">6</td></tr></tbody></table>		1	2	3	4	5	6
1	2							
3	4							
5	6							

6. Forms

Q6: Design a simple contact form using:

- Text input for Name and Email.
- Radio buttons for gender.
- A dropdown menu for selecting a country.
- A checkbox for subscribing to a newsletter.
- A submit button.

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Application Form

First Name: Last Name:

Date of birth: Age:

Gender: Email Address:

Positions Available: Junior Developer Mid-level Developer Senior Developer

Programming Languages: Java JavaScript Python

Password: Confirm Password:

Application Form

First Name: Last Name:

Date of birth: Age:

Gender: Male Female Email Address:

Positions Available: Junior Developer Mid-level Developer Senior Developer

Programming Languages: Java JavaScript Python

Password: Confirm Password:

7. Embedding Multimedia

Q7: Embed the following:

- A YouTube video using the <iframe> tag.
- An audio file using <audio controls>.
- A video file using <video controls>.

8. Div and Span

Q8: Use <div> and to:

- Create two sections: one for “About Me” and one for “My Hobbies”.
- Use to **highlight** keywords inside paragraphs.

9. Frame

Write the html code which gives the following output:

50%	50%
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Practical Assignment Questions Using CSS

Assignment 1: Apply Basic Text Styling

Question:

Create an HTML page with a paragraph about yourself. Use CSS to:

- Change the font to Arial.
- Set the font size to 18px.
- Make the text color blue.
- Center-align the text.

Assignment 2: Style a Navigation Menu

Question:

Create a horizontal navigation bar using an unordered list. Use CSS to:

Remove bullet points

- Set the background color to coral.
- Change text color to cyan.
- Add spacing between links.

Assignment 3: Create a Styled Contact Form

Question:

Design a contact form using HTML and style it using CSS to:

- Set a light background color.
- Add padding and margin.
- Style the input fields (e.g., border, width, font).
- Add hover effect to the submit button.

Assignment 4: Box Model Practice

Question:

Create three div elements with different background colors and:

Apply margin and padding

- Set width and height.
- Add borders to all boxes.

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Assignment 5: Use Classes and IDs

Question:

Create an HTML page with 3 sections:

- Use **classes** to style multiple elements with the same background color.
- Use **IDs** to give each section a unique font size or style.
- Center the whole content on the page.

Assignment 6: Hover Effects

Question:

Create a list of items (like a product list or links). Use CSS to:

- Change the background color of each item when the mouse hovers over it.
- Use transition to make the effect smooth.

Assignment 7: Responsive Design (Basic)

Question:

Create a web page with a header, two-column layout, and footer. Use CSS to:

- Make the layout adjust for small screens (e.g., columns stack vertically).
- Use media queries to change background color on smaller screens.

Assignment 8: Google Fonts Integration

Question:

Create a portfolio HTML page and use CSS to:

- Import a font from [Google Fonts](#).
- Apply the font to the entire page.
- Style headings and paragraphs with different font weights and sizes.

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Practical Assignment Questions Using Inline and External Style Sheets

Assignment 1: Use Inline CSS to Style Personal Info

Question:

Create an HTML file with a short bio (name, age, hobby, etc.). Use **inline CSS** to:

- Change the color of your name to green
- Make the hobby bold
- Set the background color of one paragraph to light yellow

Assignment 2: Create a Simple Web Page with External CSS

Question:

Create two files:

1. index.html — the main HTML page.
2. style.css — an external CSS file.

Apply the following styles using the **external style sheet**.

- Set the body background to light blue.
- Use a different font (e.g., Verdana).
- Style all <h1> elements to be red and center-aligned.
- Add padding and border to all <p> elements.

Assignment 3: Compare Inline vs External Styling.

Question:

Create an HTML file with three paragraphs. Style:

- First paragraph using **inline CSS**
- Second using an **internal style block** inside <style> tags
- Third using an **external stylesheet**

Write a note in a comment describing the difference between the three methods.

Assignment 4: Inline Style for a To-Do List

Question:

Create a to-do list using and . Use **inline styles** to:

- Set different text colors for each list item.
- Highlight one item with a background color.
- Make one item italic.

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Assignment 5: Use External CSS for a Portfolio

Question:

Design a basic portfolio page (home.html) and style it using an **external CSS file**:

- Set a background image or color
- Style buttons with padding, border-radius, and hover effects
- Make images responsive
- Add custom fonts using Google Fonts

Assignment Questions Based on CSS Selectors

Assignment 1: Universal and Type Selectors

Question:

Create an HTML page with headings, paragraphs, and a list. Use:

- The **universal selector** to apply a font and margin to all elements
- The **type selector** to give different styles to <h1>, <p>, and

Assignment 2: Class and ID Selectors

Question:

Create a product catalogue with multiple product cards.

- Use **class selectors** to apply the same style (border, padding, shadow) to each card.
- Use **ID selectors** to highlight a featured product with a unique style.

Assignment 3: Child and Descendant Selectors

Question:

Create a navigation bar inside a header.

- Use a **child selector** (>) to style only immediate children of the header.
- Use a **descendant selector** (space) to style all links inside nested elements.

Assignment 4: Adjacent Sibling Selector

Question: Create sections with <h2> followed by <p> tags.

- Use **adjacent sibling selector** (h2 + p) to style only paragraphs that immediately follow a heading.

Assignment 5: Attribute Selector

Question:

Create a form with different input types.

- Use **attribute selectors** to style:
 - [type="text"] with a specific background
 - [type="submit"] with a custom button style

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Assignment 6: Nesting and Query Selectors

Question:

Use the: nth-child, :hover, :focus to style:

- A list with alternate row colors
- Inputs that change style on focus
- Links that change color on hover

Assignment Questions Based on CSS Properties

Assignment 7: Background Properties

Question:

Create a landing page with:

- A **background image** covering the whole page
- Use **background-size**, **background-repeat**, and **background-position**

Assignment 8: Box Model and Block Properties

Question:

Design a content box with:

- Width, height
- Padding, margin
- Border and background color
- Add comments explaining how the **box model** works

Assignment 9: List Properties

Question:

Create a custom list with:

- **List-style-type** set to square, circle, or none
- **Custom bullet image** using list-style-image

Assignment 10: Border Properties

Question:

Create three boxes showing:

- Solid border
- Dotted border
- Rounded border using **border-radius**

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Assignment 11: Positioning Properties

Question:

Create an HTML page with 3 boxes:

- One **fixed** at the top (header).
- One **absolute** inside a relatively positioned container.
- One **sticky** element during scroll.

Real-Time CSS Applications

Assignment 12: Defining Text and Background Styles

Question:

Design a blog article page. Use CSS to:

- Style headings, paragraphs, and blockquotes.
- Apply background color or gradient.
- Use a Google Font.

Assignment 13: Designing Menu System

Question:

Create and style three types of menus:

- **Horizontal Menu** using inline ``.
- **Vertical Menu** using block elements.
- **Dropdown Menu** using hover and position properties.

Assignment 14: Custom Form Design

Question:

Design a login or registration form with:

- Styled input fields and labels.
- Rounded corners and box shadow.
- Custom styled submit button with hover effect.

Assignment 15: DIV + CSS Layout Design

Question:

Create a responsive webpage layout using only `<div>` and CSS:

- Header
- Navigation bar
- Content section
- Sidebar
- Footer

Use **Flexbox** or **CSS Grid** for layout design.

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JavaScript Practical Assignment Questions:

Assignment 1: Variables and Operators

Question:

Create an HTML page with a JavaScript script that:

- Declares variables for **name**, **age**, and **marks**.
- Displays the result in the browser using `document.write()` or inside a `<div>` Programs
- Uses **arithmetic operators** to calculate total marks and average marks.
- Program to Calculate area of Circle, circumference of circle.
- Program to Calculate area of Rectangle, Perimeter of Rectangle.
- Program to Calculate simple interest.
- Program to swap two numbers without using third variable and by using third variable.

Assignment 2: Condition Statements (If, If Else, if else if, nested if, Switch statement)

Question:

Create a program to:

- Check if a user is eligible to vote ($\text{age} \geq 18$)
- Check given number is even or odd.
- Print result report.
- Calculate salary statement.
- Find the roots of quadratic equation.
- Calculate net bill of a product.
- **Use a switch statement to print the day of the week based on a number (1–7)**

Assignment 3: JavaScript Loops

Question:

Create a program using:

- **For loop** to print numbers 1 to 10.
- To print table of given number.
- To find the factorial of given number.
- To print Fibonacci series.
- To check given number is palindrome or not.
- To calculate sum of each digit.
- To print various pattern using nested loop.
- **While loop** to display even numbers from 2 to 20.
- **Do while loop** to count down from 5 to 1.

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Assignment 4: JS Popup Boxes

Question:

Design a basic login form that:

- Shows an **alert box** when the user clicks “Login”
- Asks the user for their name using **prompt()**
- Uses **confirm()** to check if the user really wants to submit the form

Assignment 5: JS Events – Focus, Blur, Change, Submit

Question:

Create a registration form with fields (name, email, password). Use JavaScript to:

- Change the background color of the input when it receives **focus**
- Validate the input and show a warning when it **blurs**
- Display an alert when the form is **submitted**
- Show a message when a dropdown **on change** is triggered

Assignment 6: Mouse Events

Question:

Create a set of buttons or images that:

- Change color or text on **mouseover**.
- Perform a function when **clicked**.
- Show an alert when **double-clicked**.

Assignment 7: JS Arrays – Basic Operations

Question:

Program to: Accept and print 5 different numbers using array.

- Calculate sum of 5 different numbers using array.
- Accept and display elements of matrices using two-dimensional array.
- Calculate the sum of two matrices.
- Calculate the sum of diagonal of matrices.
- Calculate the sum of each element of matrix.
- Product of two matrices.

Assignment 8: JS Objects

Question:

Create an object for a student with properties (name, age, course, marks). Use:

- `console.log ()` or HTML to display each property.
- A method inside the object to calculate pass/fail based on marks.

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Assignment 9: JS Functions

Question:

Create a function to:

- Calculate the area of a rectangle (length × width)
- Call the function when a button is clicked
- Display the result inside a <div>
- Demonstrate the concept of user define functions.

Assignment 10: Real-Time Calculator

Question:

Create a basic calculator with two input fields and four buttons:

- Add, Subtract, Multiply, Divide
- Use **functions** to perform each operation
- Show the result dynamically without reloading the page

Assignment 11: Dynamic Form Validation

Question:

Create a login form and validate:

- Empty fields (using **onblur**)
- Email format (using regex and **onchange**)
- Password length (on **submit**)

Show custom messages using JavaScript popup or inline error divs.

Assignment 12: Image Gallery with Events

Question:

Create a small image gallery:

- When the user **clicks** an image, it shows an alert with the image name
- Use **onmouseover** to increase image size and **onmouseout** to restore it

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WD053
PROJECT

Max. Marks 50

- At the end of the course, students are required to submit a real-world project. In this project, they must design and develop a website using HTML, CSS, and JavaScript. Marks will be awarded based on the quality and functionality of the project.
- Students may work individually or in a group of up to two members under the guidance of a supervisor.

WD054
SEMINAR/PRESENTATION

Max. Marks 25

- Student will share their own thoughts, reflections or learning experiences on the topics assigned to them in the form of seminar and presentation from their entire syllabus.

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PANEL OF EXAMINERS

The Panel of Examiners recommended by the syllabus committee for the Annual examination of Six-Month Certificate Course in Web Designing 2026-27 at University Campus, which is to be held as per Ordinance.

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