

# DEPARTMENT OF LIFELONG LEARNING

## SYLLABUS FOR SESSION 2026-2027

### ONE YEAR CERTIFICATE COURSE IN GRAPHICS AND WEB DESIGNING



### GURU NANAK DEV UNIVERSITY, AMRITSAR

The **Diploma in Graphics and Web Designing One Year Course** is being run under the **Department of Lifelong Learning, Guru Nanak Dev University, Amritsar**. The course is of one-year duration and the examination is conducted only once at the end of the academic session. After successful completion of the course and passing the final examination, a candidate will be awarded the **Diploma in Graphics and Web Designing** by the **Department of Lifelong Learning, Guru Nanak Dev University, Amritsar**.

#### Note:

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

## **PROGRAMME OBJECTIVES**

- The objective of this program is to give you a strong base in graphical communication and web designing concepts.
- Students will get to use industry-standard tools for editing images, designing logos and making layouts.
- This programme also teaches how to use JavaScript, HTML and CSS to make website designs that work well on all devices.
- It helps students get ready for successful careers in the design industry by encouraging them to be creative and innovative.

## **PROGRAMME OUTCOMES**

After successful completion of this course, learners will be able to:

- Students can create high-quality visual assets such as logos, banners, posters and social media graphics using industry-standard software.
- Develop responsive and user-friendly websites using with HTML, CSS and basic JavaScript, optimized for mobile, tablet and desktop devices.
- Use modern design and development tools to produce professional graphics and web layouts.
- Build practical projects like portfolio sites, business websites or E-commerce websites.
- Pursue career paths as a graphic designer, web designer, front-end developer or freelance professional.

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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) The candidate who has passed 12<sup>th</sup> 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 12<sup>th</sup> 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: -**
  - a) 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.
  - 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.

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- 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: -

<b>1.</b>	<b>Name of the Course</b>	<b>Diploma in Graphics and Web Designing</b>	
<b>2.</b>	<b>Duration</b>	One Year	
<b>3.</b>	<b>Commencement of Course</b>	July, Every Year	
<b>4.</b>	<b>Eligibility</b>	10+2 pass female candidates from any recognized board.	
<b>5.</b>	<b>Venue</b>	Department of Lifelong Learning, Guru Nanak Dev. University, Amritsar	
<b>6.</b>	<b>No. of Seats</b>	40 seats	
<b>7.</b>	<b>Mode of Admission</b>	<p>(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.</p> <p>(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.</p>	
<b>8.</b>	<b>Fee Structure</b>	Total Fee: Rs. 22450/-	
	<b>Total fee (July 2026- June 2027)</b>	Rs. 22450/- which includes: - (To be deposited at the time of admission) Admission Fee = Rs. 2200/- Examination Fee = Rs. 1400/- Tuition Fee: Rs. 1550 * 12 Months = Rs. 8600/- Identity Card Fee = Rs. 250/-	
<b>9.</b>	<b>Late fee at the time of admission</b>	<b>July 2026 to June 2027</b>	
		<b>Fees</b>	
		May 8 <sup>th</sup> 2026 to July 31 <sup>st</sup> 2026	
		Nil	
		Aug 3 <sup>rd</sup> 2026 to Aug 11 <sup>th</sup> 2026	
		Nil	
		Aug 12 <sup>th</sup> 2026 to Aug 20 <sup>th</sup> 2026	
		Rs. 3000/-	
Aug 21 <sup>st</sup> 2026 to Aug 31 <sup>st</sup> 2026			
Rs. 4000/-			
Sep 1 <sup>st</sup> 2026 to Sep 10 <sup>th</sup> 2026			
Rs. 6000/-			
Sep 11 <sup>th</sup> 2026 to Sep 18 <sup>th</sup> 2026			
Rs. 9000/-			
<b>Within 15 Days from the date of closing of admission.</b>			
Rs. 10000/-			
<b>10.</b>	<b>Review of Course of reading</b>	<b>The syllabus committee constituted by the worthy Vice-Chancellor will review the course of reading for the session.</b>	
<b>11.</b>	<b>Conduct of Examination Evaluation &amp; Award of Certificate.</b>	To be decided with the approval of worthy Vice-Chancellor.	

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**SCHEME OF STUDY AND EXAMINATION**

<b>Course Code</b>	<b>SCHEME OF STUDY</b>		<b>SCHEME OF EXAMINATION</b>	
	<b>Name of Paper</b>	<b>Credits/Hrs. per week</b>	<b>Max. Marks</b>	<b>Examination Hrs.</b>
<b>GWD101</b>	<b>Paper-I (Theory) Graphics and Web Designing Concepts</b>	<b>6 Hrs.</b>	<b>75</b>	<b>3 Hrs.</b>
<b>GWD102</b>	<b>Paper-II (Practical-I) Practical Approach to Web Designing</b>	<b>5 Hrs.</b>	<b>100</b>	<b>4 Hrs.</b>
<b>GWD103</b>	<b>Paper-III (Practical-II) Application of Graphics</b>	<b>5 Hrs.</b>	<b>100</b>	<b>4 Hrs.</b>
<b>GWD104</b>	<b>Project</b>	<b>2 Hrs.</b>	<b>50</b>	
<b>GWD105</b>	<b>Seminar/Presentation</b>	<b>2 Hrs.</b>	<b>25</b>	
	<b>Total</b>		<b>350</b>	

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**PAPER – I (Theory)**  
**GWD101: GRAPHICS AND WEB DESIGNING CONCEPTS**

**Time: 3Hrs.**

**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. 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 learn the basics of graphics, like pixels, resolution, image formats, and color models (RGB, HEX, CMYK, and HSL).
- To teach students about different kinds of websites (static and dynamic) and the basics of web design.
- To learn how to use HTML and HTML5 to organize web pages.
- To learn how to use CSS to create and style web pages.
- To explain how to use JavaScript in order to make internet pages more interactive and dynamic.

**SECTION-A**

**INTRODUCTION TO COMPUTER GRAPHICS:**

- **Overview of Computer Graphics:** Introduction of Computer Graphics and their applications, types of Computer graphics (Active and Passive Computer Graphics).
- **Fundamental of Graphics:** Pixel, Resolution, file format (.jpg, .png, jpeg etc.), color format (RGB, HEX, CMYK, HSL), size format of image.
- **Basics of Web Designing:** 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**

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.

**HTML 5**

Introduction to HTML5, Advance features of HTML5, Difference between HTML and

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HTML5, Basic structure of HTML5 Document, multimedia elements such as audio and video elements and advanced form controls.

### **DHTML**

Introduction to DHTML, Uses of DHTML, Features of DHTML, Advantages and Disadvantages of DHTML, Structure of DHTML document, Components of DHTML, Difference between HTML and DHTML

## **SECTION-C**

### **Cascading Style Sheets**

Introduction to Cascading Style Sheets, Types of Style Sheets (In line, Internal and External), CSS for Website Layout and Print Layout, types of CSS selectors, CSS properties and its types (Background Properties, Text Properties, Box Model Properties, List Properties, Border Properties, Positioning Properties, display Properties)

### **Cascading Style Sheets (CSS 3.0)**

Introduction to CSS3, latest features in CSS3 and its properties. (CSS Background properties, Text-Shadow Property, Text-Stroke Property, CSS Rounded Corners, Border Images, Border shadow, CSS Gradients, CSS Animation Property, CSS 2D Transforms, CSS 3D Transforms)

## **SECTION-D**

### **Java Script**

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, relationship between HTML and DOM, DOM Tree structure and DOM manipulation.

### **Course Outcomes:**

After completion of the course, the students will be able to:

- Work for local clients and freelancing to create logo, banner, poster and image editing.
- Front - End Developer/Web Designer
- Start own Web and Designing business
- Create forms and apply validation techniques.
- Develop responsive and user-friendly websites.

### **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 Photo Shop class room in book, Adobe Press, 2020.

**PAPER – II (PRACTICAL– I)**  
**GWD102: 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:**

- To understand the basics of website design.
- To learn how to create web pages using HTML and CSS.
- To develop skills for designing attractive and user-friendly websites.
- To understand layout, colors and fonts in web design.
- To use Cascading Style sheets to manage layouts, typography, color schemes and overall visual appeal.
- To implement core programming concepts of JavaScript for real-time web designing.

**HTML AND HTML 5**

Introduction to HTML, basis structure of HTML, creating HTML document, HTML tags (header tags, paragraph tag, span, pre tags, anchor tags, image tags, frames, tables, form etc. Introduction to HTML5, Advance features of HTML5, HTML5 Doc Type.

**Cascading Style Sheets**

Introduction to Cascading Style Sheets and its types (In line, 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 features, properties of CSS 3.0. (CSS Background properties, Text-Shadow Property, Text-Stroke Property, CSS Rounded Corners, Border Images, Border shadow, CSS Gradients, use these CSS3 properties in Practical Layout.

**Java Script**

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, objects.

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**Course Outcomes:**

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

- Work as a web designer.
- Design simple and attractive web pages.
- Freelance work from home.
- Start their own small business on the basis of web designing.

**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

## Section A

### Practical Assignment Questions Using HTML

#### 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

#### 2. Formatting Text

Q2: Format a paragraph using the following tags:

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

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

**Example:->**

#### 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.

#### 3. Lists

Q3: Create a list of your 5 favourite foods:

- Use an **unordered list** (<ul>) and list items (<li>)
- Then, create an **ordered list** (<ol>) for your daily routine

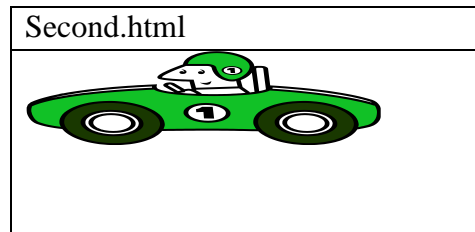
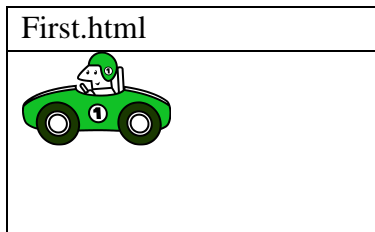
Preceding Text

- 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 favourite website using `<a href="">`
- An image of your choice using `<imgsrc="url">` 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



**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

A	B					
	D	E				
	F	G				
H	<table border="1"> <tr> <td align="center">1</td> <td align="center">2</td> </tr> <tr> <td align="center">3</td> <td align="center">4</td> </tr> </table>	1	2	3	4	
1	2					
3	4					

**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

## 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:

### 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>

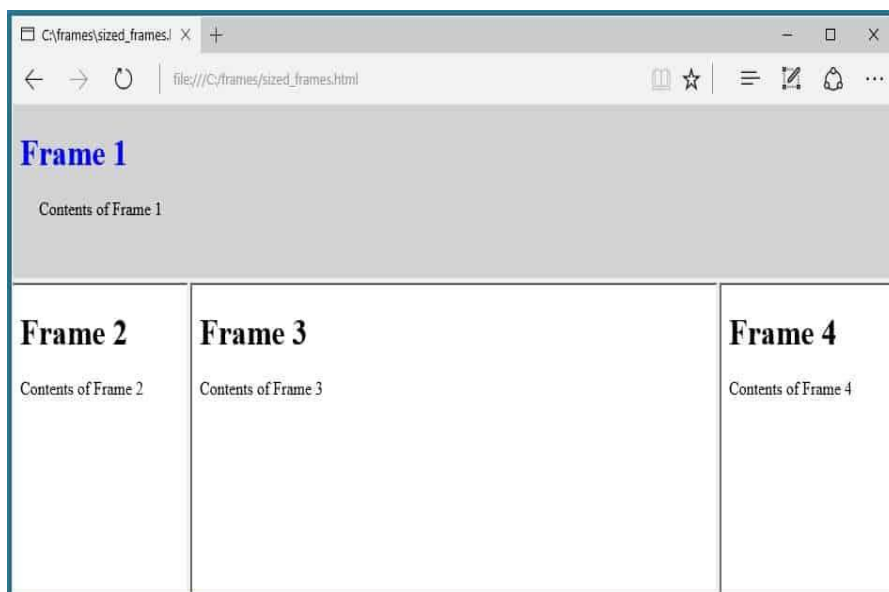
### 8. Div and Span

Q8: Use <div> and <span> to:

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

### 9. Frame

Q9: Write the html code which gives the following output:



## Section B

### Practical Assignment Questions Using CSS

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**Assignment 1: Apply Basic Text Styling**

Q1: 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**

Q2: Create a horizontal navigation bar using an unordered list. Use CSS to:

- Remove bullet points
- Set the background color to gray
- Change text color to white
- Add spacing between links

**Assignment 3: Create a Styled Contact Form**

Q3: 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**

Q4: Create three div elements with different background colors and:

- Apply margin and padding
- Set width and height
- Add borders to all boxes

**Assignment 5: Use Classes and IDs**

Q5: 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**

Q6: 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)**

Q7: 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**

Q8: 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

**Assignment 9: Use Inline CSS to Style Personal Info**

Q9: Create an HTML file with a short bio (name, age, hobby, etc.). Use **inline CSS** to:

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

Hint: Use style="..." inside HTML tags.

Assignment 10: Create a Simple Web Page with External CSS

Q10: Create two files:

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

Apply the following styles using the **external stylesheet**:

- 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

Hint: Link the external CSS file using <link rel="stylesheet" href="style.css">.

**Assignment 11: Compare Inline vs External Styling**

Q11: 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 12: Inline Style for a To-Do List**

Q12: Create a to-do list using <ul> and <li>. Use **inline styles** to:

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

**Assignment 13: Use External CSS for a Portfolio**

Q13: 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

### Practical Assignment Questions Using Selectors

**Assignment 14: Universal and Type Selectors**

Q14: 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 <ul>

**Assignment 15: Class and ID Selectors**

Q15: Create a product catalog 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 16: Child and Descendant Selectors**

Q16: Create a navigation bar inside a header.

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- 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 17: Adjacent Sibling Selector**

Q17: Create sections with <h2> followed by <p> tags.

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

**Assignment 18: Attribute Selector**

Q18: 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

**Assignment 19: Nesting and Query Selectors**

Q19: Use the :nth-child, :hover, :focus, and nesting (in SCSS or modern CSS) to style:

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

**Assignment 20: Background Properties**

Q20: Create a landing page with:

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

**Assignment 21: Box Model and Block Properties**

Q21: Design a content box with:

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

**Assignment 22: List Properties**

Q22: Create a custom list with:

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

**Assignment 23: Border Properties**

Q23: Create three boxes showing:

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

**Assignment 24: Positioning Properties**

Q24: 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

**Assignment 25: Defining Text and Background Styles**

Q25: Design a blog article page. Use CSS to:

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

**Assignment 26: Designing Menu System**

Q26: Create and style three types of menus:

- **Horizontal Menu** using inline `<li>`
- **Vertical Menu** using block elements
- **Dropdown Menu** using hover and position properties

**Assignment 27: Custom Form Design**

Q27: 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 28: DIV + CSS Layout Design**

Q28: Create a responsive webpage layout using only `<div>` and CSS:

- Header
- Navigation bar
- Content section

**Section C**

**Practical Assignment Questions Using JavaScript**

**Assignment 1: Variables and Operators**

Q1: 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)**

Q2: Create a program to:

- Check if a user is eligible to vote (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**

Q3: Create a program using:

- **For loop** to print numbers 1 to 10

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- **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

**Assignment 4: JS Popup Boxes**

**Q4:** 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**

**Q5:** 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 **onchange** is triggered

**Assignment 6: Mouse Events**

**Q6:** 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**

**Q7:** 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**

**Q8:** 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

**Assignment 9: JS Functions**

**Q9:** Create a function to:

- Calculate the area of a rectangle (length  $\times$  width)

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- 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**

Q10: 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**

Q11: 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**

Q12: 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

**PAPER – III (PRACTICAL–II)**  
**GWD103: APPLICATION OF GRAPHICS**

**Time: 4Hrs.**

**Max Marks:100**

**Instructions for the paper Setters**

The paper will be set on the spot.

<b>Course Objectives:</b>
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- |   |
|---|
| <ul style="list-style-type: none"><li>• Create vector designs like logos, posters, and banners.</li><li>• Edit, resize, and arrange objects professionally.</li><li>• Edit and enhance images professionally</li><li>• Design creatives like social media posts and banners</li></ul> |
|---|

**Image creation, graphic design and photo editing using Canva:-**Move Tool, Marque Tools, Lasso Tools, Quick Selection / Magic Wand, Crop / Slicing Tool, Image Manipulation Tools, Combining two images with different resolution with different Size, Colour Modes and Resolution Options Brushes, Patterns, Gradients, Pen Tool / Shape Tool, Text Tool, Working with Layers, Grouping and Smart Objects, Image Adjustments, Layer Masking, Layer Clipping, Using Blending Options to create unique effects, Analysis Menu, View Menu / Window Menu, Filter Effects, Photoshop Actions, Automation Tools, Animation using Photoshop, Brochure Designing, Generating PDF Output, Designing a Logo, Creating a Business Card, Design Banners for Website, Real-time Website Layout Design, practical task in layout design.

**Vector graphics suite: - Creating** New File, Title Bar, Menu Bar, Work Area-Printable, Page-Property, Bar-Page Counter, Bar-Colour Palette, Toolbox, Status Bar, Drawing, View-Preview, Wire Frame, View Draft, View-Zoom, View Manager, Creating a View. Toolbox Selecting, Object-Resizing, Object-Moving, Object-Changing, the Shape Combining, Two Objects-Skewing-Welding, Objects-Blending, Curve Lines, Straight Lines, continuing a Line, View Mode, Changing Media Tool, Rotating, Object Grouping-Fill Tool, Fly Out-Filling-Spray Mode. Introduction Text, Tool-Entering, Artistic Text, Entering Paragraph, Text-Converting, Text Formatting, Text-Changing the Font Size, Arranging Objects, Ordering the Objects, Changing the Font-Bullets, Decorating the Text-Webdings, Text Editor, Opening, Changing the Alignment Type, Style-Spell Checking, Grammar, Searching, Synonyms Find, Replace, Editing, Kerning, Formatting characters, Bitmap Images, Vector Image, Resizing, Rotating, Skewing, Moving, Cropping, Importing Images, Adding Special Effects, Converting to Bitmap, Exporting Images, Changing the Page Size, Changing the Layout, Applying Styles, Applying Bitmaps to the Background, Changing the Background, Adding a Page Frame, Moving Between Pages.

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**Course Outcomes:**

After completing, the student will be able to:

- Work for studios, photographers or social media pages.
- Work in companies, print shops or marketing agencies (design logos, poster, banners, brochures)
- Create social media posts, ads and branding designs.
- Design visiting cards, flex banners and pamphlets.
- Work on platforms like freelancing websites.

**Reference Books:**

1. Satish, J., Web Designing and Development Training Guide, BPB Publication Satish Jain, Corel Draw Training Guide, BPB Publication, 2020.
2. Andrew, F., Adobe Photo Shop class room in book, Adobe Press, 2020.

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**Image creation, graphic design and photo editing Assignments**

**1. Poster Design Assignment**

**Goal:** Design a movie, event, or product poster

- **Skills Used:** Text tool, blending options, image masking, adjustment layers, composition
- **Output:** A4 or square format (1080x1080px)

**2. Photo Manipulation / Surreal Scene**

- **Goal:** Combine multiple images to create a fantasy or surreal scene (e.g., a floating island, double exposure)
- **Skills Used:** Layers, masking, brush tool, adjustment layers, blend modes
- **Output:** 1920x1080px composition

**3. Magazine Cover Design**

- **Goal:** Create a realistic magazine cover for a fashion, tech, or travel magazine
- **Skills Used:** Text formatting, guides, image enhancement, layout design
- **Output:** A4 size, 300dpi

**4. Retouching Assignment**

- **Goal:** Retouch a portrait image (remove blemishes, smooth skin, enhance features)
- **Skills Used:** Clone stamp, healing brush, dodge & burn, liquify
- **Output:** Before & after images side-by-side

**5. Logo Mockup Presentation**

- **Goal:** Present a logo on real-life surfaces (e.g., business card, signboard, t-shirt)
- **Skills Used:** Smart objects, perspective transform, layer styles
- **Output:** Mockup images in realistic settings

**6. Digital Painting Assignment**

- **Goal:** Create a digital painting or illustration using only brushes
- **Skills Used:** Brush tool, smudge tool, custom brushes, layers
- **Output:** Any canvas size, emphasis on creativity

**7. Color Correction & Grading**

- **Goal:** Take a dull photo and apply cinematic or vibrant color grading
- **Skills Used:** Curves, color balance, selective color, LUTs
- **Output:** Before and after version

**8. Social Media Post Template**

- **Goal:** Design a reusable Instagram/Facebook template for a business
- **Skills Used:** Grids, text formatting, smart objects
- **Output:** 1080x1080px or 1080x1920px for stories

**9. Collage Design**

- **Goal:** Create a creative collage using 5–10 images
- **Skills Used:** Layer masks, textures, text overlay, layer effects
- **Output:** A4 size or digital banner

**10. Typography Poster**

- **Goal:** Create a quote or phrase-based poster focusing on text
- **Skills Used:** Type tool, kerning, tracking, blending options, text on path
- **Output:** Poster size (A3 or A4)

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**Vector graphics Assignment**

**1. Logo Design Assignment**

- **Task:** Design a logo for a fictional or real company (e.g., a tech startup, food brand, school).
- **Skills Used:** Shape Tool, Text Tool, Convert to Curves, Color Fill, Outlines
- **Size:** Vector-based, scalable
- **Bonus:** Create variations (color, black & white, icon-only)

**2. Business Card Design**

- **Task:** Create a double-sided business card
- **Details:** Include name, job title, company logo, contact details, and social media
- **Size:** Standard (3.5 x 2 inches), with bleed
- **Skills:** Guidelines, Alignment Tools, Typography, Layers

**3. Flyer or Brochure Design**

- **Task:** Design a 1-page promotional flyer or 3-fold brochure
- **Use Case:** For an event, travel package, restaurant, or product launch
- **Skills:** Layout design, use of images, text formatting, use of templates

**4. Poster Design**

- **Task:** Design an A3/A4 poster for a movie, campaign, or event
- **Elements to include:** Main image, heading, subheading, contact info, social media icons
- **Skills:** Layers, Typography, Color Harmony, Background Design

**5. Certificate Design**

- **Task:** Create a professional-looking certificate template for an award or course
- **Size:** A4 horizontal or vertical
- **Skills:** Border design, calligraphy fonts, alignment, placeholder text

**6. Product Packaging Design**

- **Task:** Create the front and back label for a product (e.g., a juice bottle)
- **Skills:** Layout, measurements, barcodes, branding, images
- **Optional:** Include dyeline (cutting) guides

**7. Vector Tracing Assignment**

- **Task:** Import a raster image (JPG/PNG) and trace it to convert it into a vector
- **Skills:** Bezier Tool, Shape Tool, Convert to Curves, Fill Tool

**8. Greeting Card Design**

- **Task:** Design a greeting card for a festival, birthday, or celebration
- **Skills:** Decorative typography, color use, clipart, shapes

**9. T-shirt Print Design**

- **Task:** Design a graphic for a custom T-shirt (typographic or illustrated)
- **Bonus:** Create a mockup using a T-shirt image

**10. Menu Card Design**

- **Task:** Design a restaurant or cafe menu (single or double page)
- **Skills:** Columns, image layout, font pairing, icons

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**GWD104**

**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.

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**GWD105**

**Seminar/Presentation**

**Max Marks : 25**

- Students will articulate their thoughts, reflections, and learning experiences on assigned syllabus topics through structured seminars and engaging presentations

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**PANEL OF EXAMINERS**

The Panel of Examiners recommended by the syllabus committee for the Annual examination of One Year Diploma in Graphics and Web Designing 2026-27 at University Campus and for the Re-appear exam which is to be held as per Ordinance.

1. Sh. Tirath Singh InchargeCenter for IT Solutions.  
Guru Nanak Dev University, Asr.  
M.NO: 9501666933, Email: [tsingh\\_97@yahoo.com](mailto:tsingh_97@yahoo.com)
2. Dr.ParminderKaur, Professor,  
Deptt. Of Computer Science, GNDU, Asr.  
M.No:9914010452, Email: [Parminder.dcse@gndu.ac.in](mailto:Parminder.dcse@gndu.ac.in)
3. Dr. MunishSaini, Assistant Professor,  
Deptt of Computer Engg.& Technology  
Guru Nanak Dev University, Amritsar  
Email: [cet@gndu.ac.in](mailto:cet@gndu.ac.in)
4. Dr. Amit Chhabra, Assistant Professor  
Dept. of Computer Engg &Tech., GNDU, Asr.  
M.no:9815988882 Email: [amit.dcse@gndu.ac.in](mailto:amit.dcse@gndu.ac.in)
5. Dr. Kiranbir Kaur, Assistant Professor  
Deptt.of Computer Engg &Tech., GNDU, Asr.  
Mno:9872049066, Email: [kiran.dcse@gndu.ac.in](mailto:kiran.dcse@gndu.ac.in)
6. Sh. Sandeep Singh Waraich, Assistant Professor,  
Deptt.of Computer Science, GNDU, Asr.  
Guru Nanak Dev University, Asr.  
M.NO:9914507007, Email: [Swraich.dcse@gnsu.ac.in](mailto:Swraich.dcse@gnsu.ac.in)
7. Dr. Anil Kumar, Assistant Professor,  
Deptt.of Computer Engg. & Tech.  
Guru Nanak Dev University, Asr.  
M.NO:9501033889, Email: [Anil.dcse@gndu.ac.in](mailto:Anil.dcse@gndu.ac.in)
8. Sh. ChetanMarwaha, System Manager  
Deptt.of Computer Science,  
Guru Nanak Dev University, Asr.  
M.NO:9501004679, Email: [marwaha.chetan@gmail.com](mailto:marwaha.chetan@gmail.com)
9. Sh. SandeepSood, System Manager,  
Centre for IT Solutions  
Guru Nanak Dev University, Asr.  
M.NO:9988080275, Email: [soodsandeep123@yahoo.com](mailto:soodsandeep123@yahoo.com)
10. Sh.VishalMalhotra, System Manager,  
Centre for IT Solutions  
Guru Nanak Dev University, Asr.  
M.NO:9417274774, Email: [vishal.cbm@gmail.com](mailto:vishal.cbm@gmail.com)