



Due date: 10/01/2025

Course Information:

Course Title	Information and Communication Technologies (Lab)
Course Code	CS-101L
Credit Hours	01
Course In-charge	Engr. Irshad Hussain
Lab	Engr. Irshad Hussain

Open Ended Lab (OEL):

Objective

To design and implement an advanced **dynamic portfolio website** that demonstrates the practical application of **HTML, CSS, and JavaScript**. The task emphasizes building responsive designs, interactive features, and integrating external resources, preparing students for real-world web development projects.

S. No.	Attribute	Description
1.	Task	<p>Develop a Dynamic Personal Portfolio Website using HTML, CSS, and JavaScript, incorporating advanced functionalities. The website should include the following:</p> <ol style="list-style-type: none">1. Personal Profile:<ul style="list-style-type: none">Your name, registration number, picture, and a brief biodata.Use advanced CSS styling to make the profile visually appealing and responsive.2. Academic Background:<ul style="list-style-type: none">Display your academic background from primary to date in a dynamic table.Include sorting and filtering functionality for the table using JavaScript.3. Interactive CV Viewer:<ul style="list-style-type: none">Provide a link to your CV in PDF format. When clicked, the CV should open in an embedded viewer within the webpage.Ensure the PDF loads dynamically without leaving the website (e.g., using an iframe or JavaScript library like PDF.js).4. Theme Switcher:<ul style="list-style-type: none">Add a theme switcher that toggles between light and dark modes. Use JavaScript to store user preferences in the browser's local storage.



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		<p>5. Contact Section:</p> <ul style="list-style-type: none"> ○ Create a form for visitors to send messages (name, email, and message). ○ Use JavaScript validation to ensure the form fields are filled correctly before submission. <p>6. Responsive Design:</p> <ul style="list-style-type: none"> ○ Ensure the website is fully responsive and adjusts seamlessly across different screen sizes (mobile, tablet, desktop). ○ Implement a mobile-friendly navigation bar using CSS and/or JavaScript. <p>7. Bonus Point (Optional):</p> <ul style="list-style-type: none"> ○ Add an interactive progress tracker for tasks or projects using JavaScript. ○ Include a gallery section for images or projects, using JavaScript for a carousel or lightbox effect.
2.	Breadth	Computer Programming
3.	Depth	To implement the concepts of web development
4.	Tools	Dream viewer, Notepad, Notepad++, Online HTML Tool (applicable if any)
5	CLO(s)	3
6.	Total Marks	50

Note: Students are required to submit the following deliverables to demonstrate the completion of the task:

1. Functional Website

- A fully functional portfolio website with all required sections:
 - Personal Profile.
 - Dynamic Academic Background Table.
 - Embedded CV Viewer.
 - Theme Switcher (Light/Dark Mode).
 - Contact Form with JavaScript validation.

2. Source Code

- **HTML, CSS, and JavaScript Files:**
 - Well-structured and commented source code files for the website.
 - Code demonstrating proper use of best practices, including modular design and responsiveness.

3. Embedded CV

- A **PDF file** of your CV linked or embedded dynamically on the website.

4. User Manual with in the OEL Report

- A concise **user guide** (1-2 pages) detailing:
 - How to use the website features (e.g., theme switcher, contact form).
 - Instructions for navigating the academic table and accessing the CV.



5. Screenshots

- **Screenshots** of the website in action, showcasing:
 - Responsive design on different devices (desktop, tablet, mobile).
 - Theme switcher in both light and dark modes.
 - Example of a filled-out contact form with validation.

6. Video Demonstration (Optional and will bear bonus point if submitted)

- A short (2-3 minutes) video walkthrough demonstrating the features and functionalities of the website.

7. Additional Features (If Implemented)

- If any bonus features (e.g., project tracker, image carousel) are implemented, submit documentation and visuals to showcase their functionality.

Students must submit all deliverables electronically in a zipped folder, including all source files and supporting documents, by the deadline specified above via email

irshad.hussain@uetpeshawar.edu.pk with a Subject of email “**OEL of ICT Course-Class Number(s)** of all Group Member Separated by Semi Colon” and the Report (plus user’s Manual within the Report) of OEL should be submitted in printed form with your respective class representative (CR) till the mentioned deadline.

Also Note:

1. Marks shall be deducted for late submissions.
2. Must be submitted with proper title page.
3. Each submission should contain detailed report on the project.
4. Complete program code (.html/.htm file, .css file and javascript file [if any]) and output is compulsory.
5. You can do the task alone or in group, however the number students per group should not exceed four (04) members.