



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.