



Course Title	Web Engineering Theory		
Program Title	B.Sc. Software Engineering	Instructor	Dr. Shamila Nasreen
Examination	Assignment-1	Max Marks	20
Date	21-Nov-2025	Deadline	28-Nov-2025
CLO	2	PLO	3
Domain	Cognitive	BTL	3

Lab Assignment 01: Build a Complete Webpage Using HTML, Semantic Tags, CSS, Flexbox, Grid & Tables and

Scenario: “Student Resource Portal” Web Page

Overview

You are hired as a junior web designer to create a **Student Resource Portal** for a fictional institute called **BrightFuture Learning Center**. The institute wants a simple webpage layout showcasing student resources, announcements, and course details. The purpose of this assignment is to ensure you apply **HTML structure, semantic tags, CSS rules, and layout techniques** including **Flexbox, Grid, and HTML Tables**. Top Navigation Bar

Instructions

1. HTML Structure & Semantic Tags

Your webpage must use the following semantic elements:	Also use standard HTML tags such as:
<ul style="list-style-type: none">• <header>• <nav>• <main>• <section>• <article>• <aside>• <footer>	<ul style="list-style-type: none">• Headings (h1-h4)• Paragraph (<p>)• Lists (or)• Images ()• Links (<a>)

2. Header Section

- Contains the site name and logo



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- Includes a navigation bar using `<nav>` that include links such as Home, Features, courses, Announcements, and contact. Top Navigation Bar: Include links to different sections of the page (e.g., Home, Features, Announcements, courses, Contact).
- Logo Creation:** Use an online tool to create a logo for your company. There are various free tools available that can assist you in designing a professional logo.

3. Main Section

Main content must be divided into two columns using **CSS Grid**:

- Left Column (Main Content Area)** containing:
 - A hero section with heading (Welcome to Your Learning Dashboard) + paragraph (e.g Access important resources, stay updated, and manage your academic journey seamlessly.) + an image kind of banner showing students group or learning environment.
 - A features section using **Flexbox** to align feature cards looks like below:
 - Create a **Features Section** where three feature boxes are aligned horizontally using `display: flex;`.



- A resources table using (`<table>`) that include following:
 - Course Name
 - Duration
 - Instructor
 - Mode (Online/Hybrid)

Available Courses

Course Name	Duration	Instructor	Mode
HTML & CSS Fundamentals	6 Weeks	Dr. Shamila Nasreen	Online
JavaScript Basics	8 Weeks	Engr. Asim Javaid	Hybrid
Data Structures	10 Weeks	Ms. Anum Tariq	Online



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- **Right Column (Sidebar)** using `<aside>`:
 - Announcement list such as:
 - New semester starts on March 1st.
 - Mid-term exams begin next week.
 - Submit assignments by Friday.
 - A small profile card (image + text) that is an image of the student itself and his/her details like BSc software Engineering and Name: Sohail Ahmed

4. Footer

- Contact information
- Copyright
- Social links (using `<a>` tags)

5. CSS Rules

Your CSS file must include:

- Styling for header, main, footer
- Flexbox styling for features section
- Grid styling for main layout
- Table styling (border, padding)
- Sidebar styling
- Basic colors, fonts, margins, and padding

6. Project Naming:

Name your project folder with your company name followed by your student ID, using the format:

CompanyName_FA23-BSE-XXX
(e.g., Student_Portal_FA23-BSE-001).



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Grading Rubric for Lab Assignment 01

RUBRIC TABLE

Criteria	Excellent	Satisfactory	Needs Improvement	Marks
1. HTML Structure & Semantic Accuracy (6 Marks)	Uses all required semantic tags correctly: <code><header></code> , <code><nav></code> , <code><main></code> , <code><section></code> , <code><article></code> , <code><aside></code> , <code><footer></code> . Proper use of headings, paragraphs, lists, images, links, and tables. (5–6 marks)	Mostly correct structure; minor errors or missing semantic tags. (3–4 marks)	Incorrect or minimal use of semantic elements; poor structure. (1–2 marks)	_____ / 6
2. CSS Styling, Flexbox & Grid Implementation (7 Marks)	External CSS used correctly. Main layout uses Grid for two columns. Flexbox applied properly to features. Good visual presentation. (6–7 marks)	CSS mostly correct; layout works with minor issues. Flexbox/Grid partially implemented. (4–5 marks)	Weak or missing CSS; Flexbox/Grid incorrect or not used. (1–3 marks)	_____ / 7
3. Completion of Required Content (5 Marks)	All required sections present: Header + logo, Navigation, Hero section, Features (Flexbox), Course table, Sidebar with announcements + profile card, Footer with social links. (4–5 marks)	Most sections included but with missing details or weak content. (2–3 marks)	Several sections missing OR irrelevant content. (1 mark)	_____ / 5
4. Project Naming & File Organization (2 Marks)	Correct naming format: CompanyName_FA23-BSE-XXX . Files organized (HTML + CSS separate). (2 marks)	Minor naming or organization issues. (1 mark)	Incorrect naming; disorganized files. (0 marks)	_____ / 2

