



FACULTY OF ENGINEERING AND TECHNOLOGY

FINAL ASSESSMENT FOR THE

BACHELOR OF SCIENCE (HONOURS) IN COMPUTER SCIENCE

**BSC (HONS) INFORMATION TECHNOLOGY (COMPUTER NETWORKING
AND SECURITY)**

BACHELOR OF SCIENCE (HONOURS) IN INFORMATION TECHNOLOGY

BACHELOR OF SOFTWARE ENGINEERING (HONS)

BSC(HONOURS) IN BUSINESS STUDIES

ACADEMIC SESSION : SEP 2025 SEMESTER

SUBJECT : WEB1201 / WEB2014 WEB FUNDAMENTALS

RELEASE DATE : 28 OCT 2025 12:00 PM

SUBMISSION DATE : 30 DEC 2025 22:00 MYT

GROUP Assignment 50%

Assignment Question

WEB1201/WEB2014: Full-Stack Web Development and Documentation

Weightage: 50%

Submission Type: Group (3-4 members)

Question: Based on the website design plan submitted in the first part of the group assignment, your team is required to completely develop and implement the proposed website using **HTML, CSS, and JavaScript ONLY**. The use of any external frameworks (CSS, JavaScript) or libraries is strictly prohibited. The final submission must demonstrate a comprehensive understanding of foundational web technologies, responsiveness, essential user interactivity, and professional documentation.

Required Implementation:

1. **Core Structure & Styling:** Develop all necessary HTML pages with appropriate structure, incorporating original CSS for a visually appealing and cohesive design (including colour, layout, and typography).

2. **Responsiveness and Compatibility:** The website must be fully responsive, ensuring optimal display and usability across various viewport sizes (mobile, tablet, desktop) and be cross-browser compatible.

3. **Essential User Functions:** Implement the following using **pure JavaScript** for interactivity:
 - A functional **Contact Form** with client-side validation (e.g., checking for empty fields, valid email format). Display errors clearly to the user.
 - A simulated **Sign-up and Log-in function** (you only need to show success/failure states, not backend integration).
 - Effective use of usability features (e.g., labels, links, navigation).

4. **Individual CV Page:** Each team member must create a dedicated, separate page within the website's structure (e.g., accessed via a link on the Team Page) that acts as their personal **professional CV or digital portfolio page**. This page must utilize **advanced HTML and CSS techniques** (e.g., Grid or Flexbox layout, custom typography, and professional styling) to present their qualifications, skills, and project contribution.

5. **Team Page:** Include a dedicated page introducing all team members, with their picture and a detailed description of their individual contribution to the project development.

Required Deliverables:

1. **Group Report (Max 20 pages):** A professional report detailing the project's introduction, design concept and rationale, a section on challenges and

solutions, and a comprehensive section on **Implementation and Results** (including screenshots of test cases and outcomes for all required functionalities, especially responsiveness and validation).

2. **Video Presentation (Max 10 minutes):** A video showcasing the layout under different viewport sizes and demonstrating that **all required JavaScript functionalities** (form validation, sign-up/log-in simulation) work as intended. The video must be uploaded to YouTube, and the privacy settings must be open to the public. Share the link in the report.
3. **Website Files:** A zipped file containing all the clean, well-organized HTML, CSS, and JavaScript source files.

Marking Rubric (50% Total)

Component / Criteria	Sub-Criteria Focus	Excellent (8-10 points)	Weighting (Marks out of 100)
I. WEBSITE DEVELOPMENT (60%)		Exceptional implementation, mastery of concepts.	60 Marks
Design, Layout, & Styling	Visual appeal, consistency, and creative use of CSS/colour.	Exceptional, visually cohesive design that strongly supports the theme and target audience.	10
Responsiveness & Compatibility	Scaling, cross-browser consistency, and optimal usability across all viewports.	Seamless adaptation, fully responsive, and compatible across various devices and browsers.	15
Functionality (JS Implementation)	Contact Form Validation, Sign-up/Log-in simulation, and interactive elements using pure JavaScript.	Advanced, flawless implementation of all required JavaScript functions, demonstrating mastery of programming concepts.	15
Usability & Structure (Including CV)	Navigation, content organization, clean code, and quality of individual CV pages .	Excellent usability, intuitive navigation, clean code, and all CV pages demonstrate professional-level design and layout .	20
II. GROUP REPORT & VIDEO (40%)		Comprehensive documentation, clear presentation.	40 Marks
A. Group Report			25 Marks
Introduction & Design Concept	Clarity of objectives, scope, and well-justified design rationale.	Clear, concise introduction and comprehensive, well-justified design concept.	10
Challenges & Solutions	Detailed description of obstacles and effective, well-thought-out resolutions.	Comprehensive discussion of challenges accompanied by effective, documented solutions.	5

Implementation & Results	Comprehensive, well-documented test cases, explanations, and screenshots of outcomes.	Thorough, detailed, and clear documentation of testing for all features (including responsiveness and validation).	10
B. Video Presentation			10 Marks
Visual & Functional Demo	Effectiveness in demonstrating layout adaptation (responsiveness) and all working JavaScript functionalities within the 5-minute limit.	Effectively demonstrates responsive design and all functionalities clearly and professionally.	10
C. Submission Quality	Language, formatting, and adherence to all submission guidelines.	Consistent formatting with no errors; articulate and professional tone.	5
TOTAL MARKS			100 Marks