Web Programming (CSE2022) Sem: 3rd Sem



SCHOOL OF ENGINEERING & TECHNOLOGY

COURSE FILE

Program: Electronics and Computer Engineering Course Code: CSE2022 Course Title: Web Programming Module Semester: 3rd Sem

Session: 2024-25

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1. Course Details

• Course Code: CSE2022

Course Title: Web ProgrammingModule/Semester: 3rd Sem

• Session: 2024-25

2. Vision, Mission of the University

Vision

BML Munjal University seeks to nurture ethical leaders who are skilled, knowledgeable and have the life skills required for leading their organizations to success. The university shall seek the advancement and dissemination of practically oriented knowledge benchmarked with the best global standards.

Mission

BML Munjal University aims to be a leading university for the quality and impact of its teaching, research and linkages with major stakeholders. The focus of the university is to find creative solutions to problems through application of knowledge. The university aims to create a talented community of students and faculty who excel in teaching, learning and research, in a creative and stimulating environment. The university will collaborate with other institutions for development of science, technology and arts in the global context.

3. Graduate Attributes

- Acquire and apply practical understanding of discipline knowledge.
- Demonstrate a sense of ethics and display excellence in both personal and professional life.
- Exhibit problem solving, critical thinking skills and investigative capability to address real world problems.
- Manifest leadership qualities and work effectively in teams across globally diverse environments.
- Be a lifelong learner with an entrepreneurial mindset to innovate in the constantly changing global scenario.
- Possess a strong sense of inquiry and design innovative solutions for positive societal impact.
- Be effective communicators and possess an empathetic outlook.

4. Vision, Mission of the School

Vision of School:

To be amongst the leading engineering schools of the country recognized globally for excellence in teaching and research with focus on experiential learning, innovation and entrepreneurship.

Mission of School:

- * Providing high-quality learning experience to our students, preparing them to be global leaders, and contributing to the development of society through research, innovation, and entrepreneurship.
- * Creating an inclusive and diverse learning environment that fosters creativity, critical thinking, and ethical values.
- * Collaborating with industry, government, and other institutions to address complex societal challenges and promote sustainable development.

5. PEOs and POs & PSOs of the Program

Program Educational Objectives (PEO):

PEO1: Understand, analyze, design, test and create prototypes for a) Modern electronic circuits & systems; and b) digital & analog systems.

PEO2: Demonstrate multidisciplinary knowledge to interface and embedded electronics & computer science in a) analyzing, designing, testing and prototyping of engineering solutions; and b) Systems Integration.

PEO3: Demonstrate capability for creativity, innovation, design thinking and entrepreneurship.

PEO4: Demonstrate and apply ethical and professional practices in profession and work responsibly towards social welfare, environmental sustainability and Job Creation / enrichment.

Program Outcomes (PO):

PO1: Apply the knowledge of mathematics, science, engineering fundamentals, along with Electronics & Computer engineering to the solution of complex engineering problems.

PO2: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using domain knowledge of electronics & computer engineering.

PO3: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health & safety, cultural, societal, and environmental considerations.

PO4: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Select and apply appropriate techniques, resources, and electronics & communication engineering tools to various engineering activities with an understanding of the limitations.

PO6: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Demonstrate knowledge and understanding of the electronics & computer engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Program Specific Outcomes (PSO):

PSO1: Analyze and create engineering solutions for Inter-disciplinary problems and assess the impact in Global, Economic, Environmental, and Societal context.

PSO2: Design, develop and test modern electronic systems to derive solutions to real world problems using cutting edge hardware and software tools.

6. Course Description and its objectives

This course will cover JavaScript technologies that power a modern full-stack development workflow, including server-side scripting, single-page web applications with MVC structure, package management, and JSON data storage. The students will learn server-side JavaScript with web frameworks such as Node.js making it simple to create and deploy complex, data-driven web applications.

7. Course Outcomes and CO-PO Mapping

Course Outcomes:

CO1: Apply various core scripting modules to build a server.

CO2: Design single-page applications, create interactive and dynamic websites.

CO/PO Mapping:

Course Outcom (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	2	1		1								1	
CO2			1	1	2	2	2							2

8. Detailed Session wise Plan & Course Syllabus

Sr. No.	Content	СО	Sessions
1	Introduction to CSS, Basic selectors, Formatting,	1	4
	integrating, CSS, In-line Styles, Embedded Style sheets,		
	Imported Style Sheet, Classes		
2	JavaScript: Data Types, Primitive Types, Statements,	1	7
	Keywords, Operators, JavaScript Conditional Statements,		
	Function Parameters, Function Return Types, Arrays		
3	JavaScript Objects, Window Objects, Document Object,	1, 2	7
	Object Creation, Adding Methods of Objects, JavaScript		
	Loops & Iteration, Adding Properties of Objects, Event		
	Handling, Enumerating Properties, Callbacks, JSON		
4	Building scalable Web Apps with Server-Side JavaScript:	2	7
	generating dynamic content on the server using Node.js		
	(creating the HTTP server, handlebars, template engines);		
	storing and retrieving data in MongoDB		

Learning Resources

Text Books:

✓ Flanagan, D. (2020). JavaScript: The Definitive Guide. O'Reilly Media.

✓ DuRocher, D. (2021). HTML & CSS QuickStart Guide: The Simplified Beginners Guide to Developing a Strong Coding Foundation, Building Responsive Websites, and Mastering the Fundamentals of Modern Web Design. ClydeBank Media LLC.

Reference Links:

• https://www.coursera.org/learn/html-css-javascript-for-web-developers

9. Weekly Timetable

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9:15-10:10					
10:15-11:10	Web			Web	
	Programming (CSE2022)			Programming (CSE2022)	
11:15-12:10	Web Programming				
	(CSE2022)				
12:15-13:10					
13:15-14:10					
14:15-15:10					
15:15-16:10					
16:15-17:10					
17:15-18:10					

10. Registered Students List

Sr.No	Unique Id.	Student Name
1	230768	Akshat Rawat
2	230972	Arepalli Yagnesh Sri Sai
3	240714	Karan Singh
4	230764	Vivek
5	230765	Samarth Sharma
6	230766	Shubham Patel
7	230915	Harsh Yadav
8	230844	Shruti Negi
9	230864	Karmanya Bhalla
10	230872	Diksha Balodi
11	230937	Ajay Teli

11. Internal Assessment Data

Component	Duration	Weightage	Evaluationweek	Remarks
Project Phase	Throughout	30%	Will be held	Focus:
Evaluation 1	the week		throughout the	Knowledge and
	starting from		starting week	application of
	16th		from 16th	HTML and CSS
	September		September	fundamentals.
				Design Layout
				and Flow of
				Website (5%),
				Understanding
				of HTML
				Structure
				(10%), CSS
				Styling (10%),
				Accessibility
				(Consideration
				of web
				accessibility
				standards in
				design) (5%)

Throughout	30%	Will he held	Focus:
_	30/0		Integration of
		•	HTML, CSS, and
_			
4th November			JavaScript
		Novermber	concepts.
			Understanding
			of basic
			JavaScript
			syntax and
			concepts
			(variables,
			functions,
			loops) (10%),
			Ability to
			interact with
			and
			manipulate the
			Document
			Object Model
			(DOM) using
			JavaScript
			(10%), Effective
			integration of
			event listeners
			and handling
			user
			interactions
			(5%), How well
			HTML, CSS, and
			JavaScript work
			together in the
			project (5%)
	Throughout the week starting from 4th November	the week starting from	the week throughout the starting from starting week

Evaluation academic calendar/Date-sheet academic calendar sheet academic calendar application of HTML, CSS, JavaScript, Node, Js, Express, Js, and MongoDB. Integration of front-end and back-end technologies, including a clear data flow between client and server. (15%), Correct setup and use of Node, Js and Express for creating an HTTP server. Handling routing effectively within the application. (10%), Effective use of template engines, static filles to generate content on the server. (5%), Ability to store, retrieve, and manipulate data using MongoDB. Proper use of Mongoose or another ODM for database interactions. (5%), Innovation, complexity, and overall usability of the final project.		T _		· .	т _
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					usability of the
					final project.
					(5%)

13 Sample Evaluated Internal Submissions and Identification of weak students.

Learner Categories Summary for Partial Semester

Learner Category	Number of Students
Advanced Learners	0
Medium Learners	9
Low Performers	2

Student Learning Classification for Partial Semester

Student Name	Category
Akshat Rawat	Medium Learner
Karan Singh	Medium Learner
Vivek	Medium Learner
Samarth Sharma	Medium Learner
Harsh Yadav	Medium Learner
Shruti Negi	Medium Learner
Karmanya Bhalla	Medium Learner
Diksha Balodi	Medium Learner
Ajay Teli	Medium Learner
Arepalli Yagnesh Sri Sai	Slow Learner
Shubham Patel	Slow Learner

14 Reflections from the Mid-term semester feedback received, and interventions made to enhance the student learning and continuous improvement in teaching and learning strategies.

- Implemented targeted interventions, including additional resources and clarification sessions, based on the identified challenges to enhance the learning experience.
- Encouraged an environment of keeping communication open with students, making sure their opinions help us make teaching and learning better.

15. Actions taken for low performers

• Weak students were identified, and they were given extra time to solve their problems.

17. Details of Marks in all components up to the End Semester including the grades

Sr.No	Unique Id.	Student Name	Project Evaluation Out of (60)	End term examination Out of (40)	Grading
1	230768	Akshat Rawat	23.0	28.75	С
2	230972	Arepalli Yagnesh Sri Sai	0.0	0.0	F
3	240714	Karan Singh	29.0	31.5	В
4	230764	Vivek	26.0	31.5	C+
5	230765	Samarth Sharma	36.0	44.75	А
6	230766	Shubham Patel	0.0	2.75	F
7	230915	Harsh Yadav	26.0	31.5	C+
8	230844	Shruti Negi	26.0	40.25	B+
9	230864	Karmanya Bhalla	33.0	40.75	А
10	230872	Diksha Balodi	26.0	38.25	В
11	230937	Ajay Teli	33.0	38.75	B+

18. Identification of advanced learners and low performers conducted at the end of the semester

Learner Categories Summary

Learner Category	Number of Students
Advanced Learners	0
Medium Learners	9
Slow Learners	2

Student Learning Classification

Student Name	Category			
Akshat Rawat	Medium Learner			
Karan Singh	Medium Learner			
Vivek	Medium Learner			
Samarth Sharma	Medium Learner			
Harsh Yadav	Medium Learner			
Shruti Negi	Medium Learner			
Karmanya Bhalla	Medium Learner			
Diksha Balodi	Medium Learner			
Ajay Teli	Medium Learner			
Arepalli Yagnesh Sri Sai	Slow Learner			
Shubham Patel	Slow Learner			

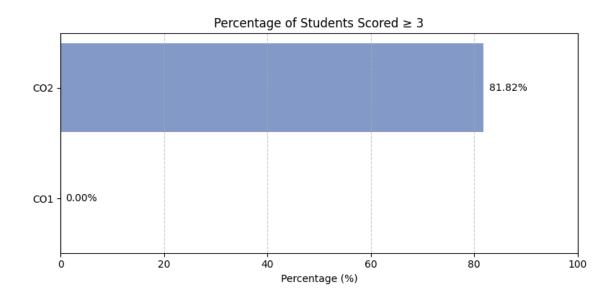
19. Attendance Report

Sr.No	Unique Id.	Student Name	Attendance		
1	230768	Akshat Rawat	78.72		
2	230972	Arepalli Yagnesh Sri Sai	76.60		
3	240714	Karan Singh	92.86		
4	230764	Vivek	85.42		
5	230765	Samarth Sharma	89.58		
6	230766	Shubham Patel	79.17		
7	230915	Harsh Yadav	87.50		
8	230844	Shruti Negi	87.50		
9	230864	Karmanya Bhalla	83.33		
10	230872	Diksha Balodi	87.50		
11	230937	Ajay Teli	89.58		

20. CO attainment analysis with the reflection on feedback on course outcomes

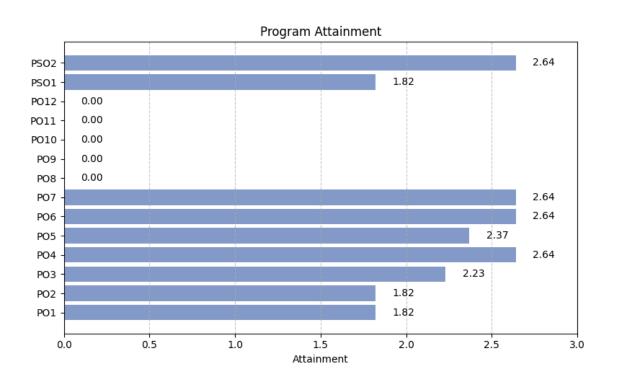
CO Attainment Summary

Course Outcomes	CO1	CO2		
Weights	52.00%	48.00%		
No. of students scored greater than	0	9		
3				
Percentage of students scored	0.00%	81.82%		
greater than 3				
Attainment Level	1	3		
Overall Course Attainment	2.0000			



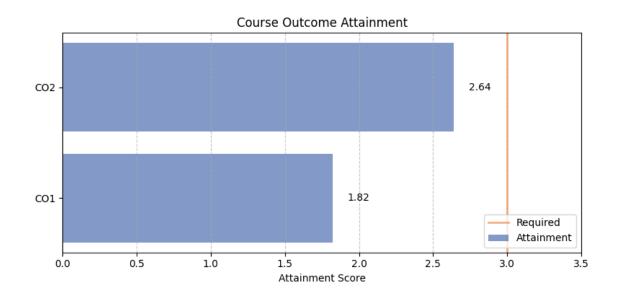
Program Attainment

Program Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Program Attainment	1.82	1.82	2.23	2.64	2.37	2.64	2.64	0.00	0.00	0.00	0.00	0.00	1.82	2.64



Student-wise CO Achievement

NAME	CO1 Score	CO2 Score		
Akshat Rawat	2	3		
Arepalli Yagnesh Sri Sai	1	1		
Karan Singh	2	3		
Vivek	2	3		
Samarth Sharma	2	3		
Shubham Patel	1	1		
Harsh Yadav	2	3		
Shruti Negi	2	3		
Karmanya Bhalla	2	3		
Diksha Balodi	2	3		
Ajay Teli	2	3		
Average	1.82	2.64		



21. Feedback (class committee or otherwise) and corrective actions (if any)

Quantitative Feedback:

Average Rating: 4.17/5

22. Faculty Course Review

The course was designed in such a way that students can relate the theoretical concepts with the practical exercises and can realize how a web page is designed and programmed

The non-graded quiz was conducted at the end of the class to observe the students' participation in the class. This also helped the students to evaluate themselves with respect to the topics covered in the class.

The students were assigned challenging designing tasks based on the CSS topics discussed in the class.

The students were assigned group projects to work on a particular case study to develop website using HTML, CSS, JavaScript, NodeJS and Templates to provide an aesthetic user experience with appropriate navigation structure.

This course was aimed at enabling the students to design/create website by conducting various activities for remembering, understanding, applying and analyzing level of Bloom's taxonom