

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE MODULE FOR THE AY: 2026-27

Course Syllabus with CO's

Academic Year: 2025-26							
Department: COMPUTER SCIENCE & ENGINEERING							
Course Code	Course Title	Core/ Elective	Prerequisite	Contact Hours			Total Hrs/ Sessions
				L	T	P	
BCSL504	WEB TECHNOLOGY LAB	Core	INTRODUCTION TO WEB PROGRAMMING	-	-	2	20
Objectives	This course will enable students to - Learn HTML 5 elements and their use. - Use of CSS for enhanced user interface presentation. - Gain knowledge of JavaScript, AJAX and jQuery for dynamic presentation. - Use of PHP to build Web applications. - Design and develop Websites and Web applications.						
1. Develop the HTML page named as “Myfirstwebpage.html”. Add the following tags with relevant content. 1. Set the title of the page as “My First Web Page” 2. Within the body use the following tags: - Moving text = “Basic HTML Tags” - Different heading tags (h1 to h6) - Paragraph - Horizontal line - Line Break - Blockquote - Pre tag - Different Logical Style							

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

2. Develop the HTML page named as “Table.html” to display your class time table. a) Provide the title as Time Table with table header and table footer, row-span and col-span etc. b) Provide various colour options to the cells (Highlight the lab hours and elective hours with different colours.) c) Provide colour options for rows.
3. Develop an external style sheet named as “style.css” and provide different styles for h2, h3, hr, p, div, span, time, img & a tags. Apply different CSS selectors for tags and demonstrate the significance of each.
4. Develop HTML page named as “registration.html” having variety of HTML input elements with background colors, table for alignment & provide font colors & size using CSS styles.
5. Develop HTML page named as “newspaper.html” having variety of HTML semantic elements with background colors, text-colors & size for figure, table, aside, section, article, header, footer... etc.
6. Apply HTML, CSS and JavaScript to design a simple calculator to perform the following operations: sum, product, difference, remainder, quotient, power, square-root and square.
7. Develop JavaScript program (with HTML/CSS) for:
 - a) Converting JSON text to JavaScript Object
 - b) Convert JSON results into a date
 - c) Converting From JSON To CSV and CSV to JSON
 - d) Create hash from string using crypto. createHash() method
8. a. Develop a PHP program (with HTML/CSS) to keep track of the number of visitors visiting the web page and to display this count of visitors, with relevant headings.

b. Develop a PHP program (with HTML/CSS) to sort the student records which are stored in the database using selection sort.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

9. Develop jQuery script (with HTML/CSS) for:

- Appends the content at the end of the existing paragraph and list.
- Change the state of the element with CSS style using animate() method
- Change the color of any div that is animated.

10. Develop a JavaScript program with Ajax (with HTML/CSS) for: a. Use ajax() method (without JQuery) to add the text content from the text file by sending ajax request. b. Use ajax() method (with JQuery) to add the text content from the text file by sending ajax request. c. Illustrate the use of getJSON() method in jQuery d. Illustrate the use of parseJSON() method to display JSON values.

Course Outcomes	After studying this course, students will be able to:
CO1	Design the experiment for the given problem using HTML, JavaScript and CSS.
CO2	Develop the solution for the given real-world problem using jQuery, Ajax and PHP.
CO3	Analyze the results and produce substantial written documentation.

The Correlation of Course Outcomes (CO's) and Program Outcomes (PO's)

Subject Code:	BCSL504	TITLE: Web Technology Lab											
List of Course Outcomes	Program Outcomes												Total
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11		
CO-1	2	2	2	-	2	-	-	-	-	-	-		08
CO-2	2	2	2	-	3	-	-	-	-	-	-		09
CO-3	2	2	2	-	2	-	-	-	-	-	2		10
Total	6	6	6	-	7	-	-	-	-	-	2		27

Note: 3 = Strong Contribution 2 = Average Contribution 1 = Weak Contribution - = No Contribution

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

The Correlation of Course Outcomes (CO's) and Program Specific Outcomes (PSO's)

Subject Code:	BCSL504	TITLE: Web Technology Lab	
List of Course Outcomes	Program Specific Outcomes		Total
	PSO1	PSO2	
CO-1	3	-	3
CO-2	3	-	3
CO-3	2	-	2
Total	8	-	8

Note: 3 = Strong Contribution 2 = Average Contribution 1 = Weak Contribution - = No Contribution

