Web Technology Lab		Semester	5
Course Code	BCSL504	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	0:0:2:0	SEE Marks	50
Credits	01	Exam Hours	100
Examination type (SEE)	Practical		

Course objectives:

- 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.

Sl.NO	Experiments

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:
	    a) Moving text = "Basic HTML Tags"
	    b) Different heading tags (h1 to h6)
	    c) Paragraph
	    d) Horizontal line
	    e) Line Break
	    f) Block Quote
	    g) Pre tag
	    h) Different Logical Style (<b>, <u>, <sub>, <sup> etc.)

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 "newpaper.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.

9	Develop jQuery script (with HTML/CSS) for: a. Appends the content at the end of the existing paragraph and list. b. Change the state of the element with CSS style using animate() method c. 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.

Programming Assignment (5 marks):
Construct a Website (multiple Web pages) containing 'Resume' and Bio -data by using relevant HTML elements and appropriate styling for presentation with CSS/jQuery/JavaScript. Host the Website on a cloud platform.

Programming Assignment (5 marks): Build a Web application with HTML, CSS, JavaScript, jQuery and PHP for online application/registration form. Form should accept the information and print/display on a browser with formatting/styling upon submission (Button click) on success. Host the application on a cloud platform.

Course outcomes (Course Skill Set):
At the end of the course, the student will be able to:
● Design the experiment for the given problem using HTML, Javascript and CSS.
● Develop the solution for the given real-world problem using jQuery, Ajax and PHP.
● Analyze the results and produce substantial written documentation.