List of Practicals

Course: B.Tech CSE **Semester: VIth**

Subject: Web Technology Lab **Subject Code: [PCS-693]**

HTML 5

1. Demonstrate all the text formatting tags in a single HTML page.

2. Write a HTML code to draw the following Figure :

```
                *
          *     *     *
    *     *     *     *     *
*   *     *     *     *     *     *
```

3. Create a web page to print the following table:

List of Course-wise Subjects

Sr. No.	Course	Subject	Marks		Category		Practical/ Theory
			Internal	External	Internal	External	
1	MBA	Management Accounting	30	70	-	✓	Theory
		Information Technology	30	70	-	✓	T and P
		Basics of Marketing	30	70	-	✓	Theory
		E-Commerce	50	-	✓	-	Theory
2	MCM	Visual Basic	30	70	-	✓	T and P
		Internet Technology	30	70	-	✓	T and P
		Network Technology	30	70	-	✓	Theory
		VB.Net	30	70	-	✓	T and P
		Linux	30	70	-	✓	T and P
		ISA	50	-	✓	-	Theory

4. Using table related tags align the images with hyperlinks.

5. Create a web page with the following using HTML:
   I. To embed an image map in a web page
   II. To fix the hot spots
   III. Show all the related information when the hot spots are clicked.

6. Write a HTML code for the following snapshot.

7. Create a web page of customer profile for data entry of customer's in a Hotel, The profile should include Name, Address, Age, gender, Room Type (A/C, Non-A/C or Deluxe), Type of payment (Cash, Credit/Debit Card or Coupons).

8. Demonstrate the use of following HTML5 Tags:
   I. <Video>
   II. <Audio>
   III. <Header>
   IV. <Footer>
   V. <Nav>
   VI. <Embed>
   VII. <Datalist>
   VIII. <Bdi>
   IX. <Article>
   X. <Output>

9. Design an HTML page to create the following list.

1. **Programming Languages**
    - **Python**
        - Frameworks
            1. Django
            2. Flask
        - Libraries
            - NumPy
            - Pandas
            - Matplotlib
    - **Java**
        - Core Concepts
            - OOP
            - Multithreading
            - Exception Handling
        - Frameworks
            1. Spring
            2. Hibernate
2. **Web Development**
    1. **Frontend**
        - HTML
        - CSS
        - JavaScript
            - React
            - Vue.js
            - Angular
    2. **Backend**
        - Node.js
        - PHP
        - Ruby on Rails

Cascading Style Sheet

1. Create a web page to show all hyperlinks with following specification:
    - Default color is pink.
    - Active color is blue
    - Visited color is Green
    - Hyperlink should be without underline.

2. Create Box Shadow and text Shadow using CSS3.

3. Create Rounded Corners using css3.

4. Create a web page to show newspaper layout effects on contents given in web page (i.e. in multiple columns).

5. Create a web page to show transition effect in such a way so that elements gradually change from one style to another style.

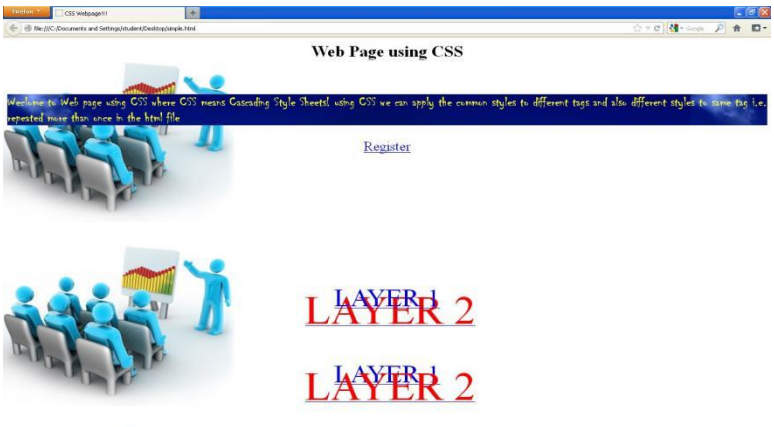
6. Create a web page to show fixed background image (this image will not scroll with the rest of the page).

7. Create a web page to position a background image and repeat the image horizontally or vertically.

8. Create an HTML page to demonstrate all types of CSS position properties (static, relative, absolute, fixed, and sticky).

9. Design a web page using CSS which includes the following:
    i. Use different font styles
    ii. Set background image for both the page and single elements on page.
    iii. Control the repetition of image with background-repeat property
    iv. Define style for links as a:link, a:active, a:hover, a:visited
    v. Add customized cursors for links.
    vi. Work with layers.

Snapshot



JavaScript

1. Design a web page to validate credit card numbers per the specifications below. The following tables outline the major credit cards you want to validate and allow prefixes and lengths.

Card Type	Prefix	Length
Master Card	51–55	16
Visa	4	13,16
American Express	34,37	15

2. Design a web page to validate the following according to the standard conditions.
    a. Name
    b. E-Mail-id and
    c. Password.

3. Store some country names and their capitals. Ask the user to select a country and its capital from two lists. If the match is correct, display "Correct answer"; otherwise, display an error message and tell the correct answer.

4. Design the simple Calculator.

5. Design a web page that is self-modifying itself after every minute.

6. Design a web page that implements a running clock.

7. Write a code for a web application that accepts the user's birthdate in a textbox and displays the day of the week in a message box at the click of a button.

8. Write a script that inputs a telephone number as a string in the form (555)555-555. The script should use the strings method split to extract the area code as a token and the last four digits of the phone numbers as a token. Display the area code in one test field and the seven-digit phone number in another text field.

9. Develop and demonstrate an HTML file that includes a JavaScript script that uses functions for the following problems:

    a. Parameter: A string
       Output: The position in the string of the left-most vowel
    b. Parameter: A number
       Output: The number with its digits in the reverse order.

10. Write a JavaScript function that takes a string that has lower and upper case letters as a parameter and converts upper case letters to lower case and lower case letters to upper case.

11. Design a web page to perform a survey on four different models of Maruti (Maruti -K10, Zen-Astelo, Wagnor, Maruti- SX4) owned by people living in four metro cities(Delhi, Mumbai, Chennai & Kolkatta). Display tabulated report like format given below:

	Maruti-K10	Zen-Astelo	Wagnor	Maruti-SX4
Delhi				
Mumbai				
Cheenai				
Kolkatta				

Calculate the number of cars of different models in each metro city.

PHP Programs

1. Create a web page to maintain a session using PHP.

2. Create a program to write & retrieve cookies.

3. Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.

4. Write a PHP program to store current date-time in a COOKIE and display the "Last visited on date-time on the web page upon reopening of the same page.

5. Using PHP and MySQL, develop a program to accept book information viz. Accession number, title, authors, edition and publisher from a web page and store the information in a database and to search for a book with the title specified by the user and to display the search results with proper headings.

6. Create a login form with fields for User ID and Password. Upon form submission, validate the entered credentials by matching them with existing records. If the User ID and Password are correct, display a new welcome page.

7. Create a PHP page that displays all records from the PERS table where the Department Number (dno) matches one of the values listed on the web interface.

React Programs

1. Create a functional component that accepts props and displays a personalized message.

2. Create a class component that maintains a counter and provides buttons to increase and decrease the counter.

3. Create a functional component that maintains a counter and provides buttons to increase, decrease and reset the counter.

4. Create a functional component that displays a running clock and the current date.

5. Create a component with a form that updates the state based on user input.

6. Create a React application with multiple routes.