

Department : Computer Science and Engineering	
Course Title : Web Technologies(Integrated Lab)	Course Code : CS554
Credits(L:T:P) : 0:0:1	Core/Elective : Elective
Type of Course : Integrated Lab	Total Contact Hours : 26
CIE Marks : 50	SEE Marks:

Course Outcomes:

CO1:	Design and implement dynamic web documents with good aesthetic sense.
CO2:	Apply Web design best practices and styles while developing Websites.
CO3:	Design more interactive webpages with the help of scripting language and document object model.
CO4:	Develop dynamic Web-based applications to interact with server.
CO5:	Implement a well-formed client and server side web application.

Unit No.	List of programs	No. of Hours
1	<p>1. Design web pages for your institute containing a description of the courses, departments, faculties, library etc, use href, list tags and add college image as a background picture for home page.. Also create and display class timetable using table tag. Use additional features like spanning rows, columns and table borders.</p> <p>2. Create a form to collect Student feedback. (use textbox, text area , checkbox, radio button, select box etc.).</p> <p>3. Create a web page using frame. Divide the page into two parts with Navigation links on left hand side of page (width=20%) and content page on right hand side of page (width = 80%). On clicking the navigation Links corresponding content must be shown on the right hand side.</p> <p>4. Write html code to develop a webpage having two frames that divide the webpage into two equal rows and then divide the row into equal columns fill each frame with a different background color.</p> <p>5. Create your resume using HTML tags also experiment with colors, text (Bold, italic and different headings), image, link, size and also other tags.</p>	08
2	<p>1. Design a web page using CSS with suitable design for the following:</p> <ol style="list-style-type: none"> Demonstrate different font styles Control the repetition of image with background-repeat property Define style for links as a:link, a:active, a:hover, a:visited Demonstrate Element visibility property. <p>2. Design a web page of your institute(Unit 1.1) with an attractive background color, text color, an Image, font etc. (use internal CSS). Use External CSS to format the class timetable.</p>	04

	3. Use External, Internal, and Inline CSS to format resume that you created in Unit 1.5	
3	<p>1. Develop a JavaScript to display today's date.</p> <p>2. Develop simple calculator for addition, subtraction, multiplication and division operation using JavaScript.</p> <p>3. Create HTML Page that contains form with fields Name, Email, Mobile No, Gender , Favorite Color and a button. Write a JavaScript code to validate all the fields when the button is clicked, later combine and display the information in textbox.</p> <p>4. Write an XHTML document which displays a form containing text elements to input register number, sub-code, marks in three tests and a button element. Also write java script code to compute average of two better tests on click of button and print average marks using alert. Validate all the fields using javascript.</p> <p>5. Write an XHTML and java script to validate the following fields in a registration page</p> <ol style="list-style-type: none"> User ID (must be of length 5 to 12) Name (only alphabets and the length should not be less than 15 characters) Password (must be eight characters including one uppercase letter, one special character and alphanumeric characters) E-mail(should not contain invalid addresses) 	08
4	<p>1. Write a PHP program to display today's date in dd-mm-yyyy format.</p> <p>2. Write a PHP program to check whether the number is prime or not when user input a valid number from client side.</p> <p>3. Write a PHP program to print first 10 Fibonacci Numbers.</p>	02
5	<p>1. Create HTML page that contain textbox, submit / reset button. Write PHP program to display this information and also store into text file.</p> <p>2. Write a PHP Script for login authentication. Design an html form which takes username and password from user and validate against stored username and password in file.</p>	04

Text Book:

1. Randy Connolly, Ricardo Hoar, "Fundamentals of Web Development", 2nd Edition, Pearson Education India. 2017.

Reference Books:

1. Jeffrey C. Jackson: Web Technologies- A Computer Science Perspective, Pearson Education, Eleventh Impression, 2012.
2. Luke Welling, Laura Thomson, “PHP and MySQL Web Development”, 5th Edition, Pearson Education, 2016. (ISBN:978-9332582736)
3. Nicholas C Zakas, “Professional JavaScript for Web Developers”, 3rd Edition, Wrox/Wiley India, 2012. (ISBN:978-8126535088)

Web Resources:

1. NPTEL : <http://nptel.ac.in/courses/106105084/>