WEB TECHNOLOGIES LABORATORY

IV Semester: CSE

Course Code	Category	Hours / Week			Credits	Maximum Marks		
		L	T	P	C	CIA	SEE	Total
ACS105	Core	-	-	3	2	30	70	100
Contact Classes: Nil	Tutorial Classes: Nil	Practical Classes: 48				Total Classes: 48		

OBJECTIVES:

The course should enable the students to:

I. Demonstrate the ability to retrieve data from a database and present it in a web page.
II. Use FTP to transfer web pages to a server.
III. Construct pages that meet, guidelines for efficient download and cater to the needs of an identified audience.
IV. Evaluate the functions of specific types of web pages in relationship to an entire web site

COURSE LEARNING OUTCOMES (CLOs):

The students should enable to:

1. Understand the basic HTML tags.
2. Understand and apply the design principles of HTML and Java Script to create static and dynamic web pages.
3. Understand the difference between HTML and XML scripting languages.
4. Analyze the client side validation procedure in web applications.
5. Identify the difference between the JSP and Servlet.
6. Able to use web server and data base servers using specific vendor related software's.
7. Create web applications by using the concepts like JSP and Servlet.
8. Identify and perform requesting and response generation process in web servers Draw and analysis of characteristic curves of flow meters.
9. Understand the PHP downloading, installation and configuring PHP process.
10. Understand branching statements, loop statements and use them in problem solving.
11. Identify the methods to read data from web pages using PHP.
12. Understand how MYSQL server is connected with PHP
13. Able to perform crude operations in data base servers, operations in PHP.
14. Familiar with basic HTML, XML, JSP and PHP techniques: Creation of web pages, that includes verification and validation of web pages.

LIST OF EXPERIMENTS

Week-1	**INSTALLATIONS**
Installation of XAMPP and WAMP servers	
Week-2	**HTML**

a. Create a table to show your class time table.
b. Use tables to provide layout to your HTML page describing your college infrastructure.
c. Use and tags to provide a layout to the above page instead of a table layout.

Week-3	HTML
a. Use frames such that page is divided into 3 frames 20% on left to show contents of pages, 60% in center to show body of page, remaining on right to show remarks. b. Embed Audio and Video into your HTML web page.	
Week-4	**HTML**
a. Create a webpage with HTML describing your department use paragraph and list tags. b. Apply various colors to suitably distinguish keywords , also apply font styling like italics, underline and two other fonts to words you find appropriate , also use header tags. c. Create links on the words e.g. ―Wi-Fi and ―LAN to link them to Wikipedia pages. d. Insert an image and create a link such that clicking on image takes user to other page. e. Change the background color of the page; At the bottom create a link to take user to the top of the page.	
Week-5	**HTML**
Develop static pages (using only HTML) of an online book store, the pages should resemble: www.amazon.com, the website should consist the following pages, home page, registration and user login, user profile page, books catalog, shopping cart, payment by credit card, order confirmation.	
Week-6	**CASCADING STYLE SHEET**
Write an HTML page that contains a selection box with a list of 5 countries, when the user selects a country, its capital should be printed next to the list; Add CSS to customize the properties of the font of the capital (color, bold and font size).	
Week-7	**JAVASCRIPT**
a. Write a java script program to test the first character of a string is uppercase or not. b. Write a pattern that matches e-mail addresses. c. Write a java script function to print an integer with commas as thousands separators.	
Week-8	**JAVASCRIPT**
a. Write a java script program to sort a list of elements using quick sort. b. Write a java script for loop that will iterate from 0 to 15 for each iteration, it will check if the current number is odd or even, and display a message to the screen.	
Week-9	**JAVASCRIPT**
a. Write a java script program which compute, the average marks of the following students then this average is used to determine the corresponding grade. b. Write a java script program to sum the multiple s of 3 and 5 under 1000. c. To design the scientific calculator and make event for each button using java script.	
Week-10	**PHP**
a. A simple calculator web application that takes two numbers and an operator (+, ,/,*and %) from an HTML page and returns the result page with the operation performed on the operands. b. Write PHP program how to send mail using PHP.	

WeeK-11	PHP
a. Write PHP program to convert a string, lower to upper case and upper case to lower case or capital case. b. Write PHP program to change image automatically using switch case. c. Write PHP program to calculate current age without using any pre-define function. d. Write PHP program to upload image to the server using html and PHP.	
Week-12	**PHP**
a. Write PHP program to upload registration form into database. b. Write PHP program to display the registration form from the database.	
Week-13	**PHP**
a. Write PHP program to update the registration form present in database. b. Write PHP program to delete the registration form from database.	

Text Books:

1 Chris Bates, "Web Programming: Building Internet Applications", Wiley DreamTech, 2nd Edition,2002
2 Jeffrey C K Jackson, "Web Technologies", Pearson Education, 1st Edition,2006
3 Steven Holzner,"the Complete reference PHP",TataMcGraw-Hill,1st Edition,2007

Reference Books:

1. WHans Bergsten, "Java Server Pages", O"Reilly, 3rd Edition, 2003.
2. D. Flanagan, "Java Script", O"Reilly, 6th Edition, 2011.
3. Jon Duckett, "Beginning Web Programming", WROX, 2nd Edition, 2008.
4. Herbert Schildt, "Java the Complete Reference", Hill - Osborne, 8th Edition, 2011.