

Branch Name:	Information Technology
Program Code:	ET105
Course Title:	Web Development Practical
Course Code:	2ET1050502P
Pre-requisite Course:	Introductory Course in Computer Programming

Course Objectives:

The Objective of this course is to make the students learn about the mapping between data structures & algorithms, designing and analyzing algorithms for real world problems.

Teaching and Examination Scheme:

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								Total (Marks)
					Theory (Marks)				Practical (Marks)				
	L	T	P	Total	SEE		CCA		SEE		CCA		
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
1	-	-	2	2	-	-	-	-	10	25	10	25	50

Course Contents:

Sr.No	Practical Exercise
1	Design HTML page to display any irregular table with required (at least 15tags)HTML tags and attributes.
2.	Design a web page to use CSS to control the style and layout tag <div> for SPU website home page.
3.	Design HTML form with java script to perform following task: a. To show “You Clicked Me” message when a user clicks on button “Click Me”. b. Takes Integer number as input and tells whether the number is ODD or EVEN. c. Takes two real numbers as input and perform arithmetic’s operation chosen by user from list of radio button.

4.	Design HTML form with java script for registration purpose with following constraints: • Name accepts only alphabet character • Mobile Number with exactly 10 character • Email Id in valid format • Display hint on mouse over the textbox
5.	2) Design a XSLT to read data from XML File and print it in tabular manner. Use XML file of store book information like its name, author, publisher and price for at least two books regarding the DTD for the same file
6.	Enhance the experiment 4 to store and display the registration detail from database. • Display all information on next page • Store all information after confirmation • Use session in case of edit information on back to first page
7.	Design a web page in PHP which allows user to upload file with following restrictions. • Only “pdf” and “jpeg” file can be uploaded. • File size should not exceed 1000KB. If upload is successful then it should display all details of the file like its name, size and type otherwise it display invalid message as above requirements.
8.	Write a PHP script for reading the content from text file and displaying data in tabular form.
9.	Implement the web applications with Database using (a) PHP, (b) Servlets and (c) JSP.
10.	Modify the above PHP program to use an xml instead of database.
11.	Write a program to design a simple calculator using (a) JavaScript (b) PHP (c) Servlet and (d) JSP.
12	Write a program to design a simple calculator using (a) JQuery (b) PHP (c) Servlet and (d) JSP.

List of Reference Books:

- 1 HTML5, BlackBook, dream tech Press
- 2 Internet and World Wide Web How to program, P.J. Deitel & H.M. Deitel, Pearson
- 3 Web Technologies, BlackBook, dream tech Press
- 4 Web Design, Joel Sklar, Cengage Learning
- 5 Developing Web Applications in PHP and AJAX, Harwani, McGraw Hill
- 6 The Web Designer's 101 Most Important Decisions Professional Secrets for a Winning Website, Scott Parker, Paperback
- 7 Beginning Web Programming with Html, XHTML and CSS, Jon Duckett

List of Open-Source Software/learning website:

- <http://www.nptelvideos.in/2012/11/data-structures-and-algorithms.html>
- https://www.tutorialspoint.com/data_structures_algorithms/
- Data Structure Fundamentals: <http://www.cprograms.in/index.htm>
- Data structure video <http://www.youtube.com/watch?v=tORLeHHtazM>
- <https://nptel.ac.in/courses/106102064/>
- <https://nptel.ac.in/courses/106103069/>

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	After learning the course, the students will be able to understand the working of website	2 Understanding
CLO2	After learning the course, the students will be able to understand the working of internet	1 Remembering
CLO3	Using programming skill of HTML, Java Script, XML, PHP and MySql, Students will be able to develop a websites.	2 Understanding,
CLO4	Using programming skill of HTML, Java Script, XML, PHP and MySql, Students will be able to develop a user interactive websites.	3 Applying, 2 Understanding
CLO5	The students will able to design of a web pages according to client requirement using Bootstrap.	5,3, 4 Evaluate , Applying, Analyze
CLO6	The students will able to design of a web pages according to client requirement and manage the content as improve the readability using JQuery.	6 Creating

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes(PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CLO1		L	L				L					M	H	M	M	M
CLO2		M				L		M		H			H	M	M	M
CLO3					M	H		M					H	M	M	M
CLO4		M	M	M		M		M	M					M		M
CLO5				M	H	M	H	M	H						H	
CLO6										L		M		H		

Mapping of CLOs with POs & PSOs

H: High, M: Medium, L: Low