

Branch Name:	Information and Communication Technology
Program Code:	ET107
Semester/Year:	Semester V / Third Year
Course Name:	Web Application Technology Practical (Professional Elective –I)
Course Code:	2ET1070503P
Pre-requisite Code:	Fundamentals of Programming and Networking

Course Objective:

1. To understand working of internet and websites.
2. To study programming for web application development.
3. To analyze and design web user interface with browser compatibility.
4. To understand working of data connectivity on server side programming.

Teaching and Examination Scheme:

Credit	Teaching Scheme Hours per week				Evaluation Scheme(Marks)								
					Theory (Marks)				Practical (Marks)				Total (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

List of Suggested titles of Experiments:

1. Design HTML page to display following irregular table with required HTML tags and attributes.

A	B	D	E			F
	C		G	H	I	O
J					P	
N						
K			L	M		

- Add Basic HTML tags like Heading Tags, Paragraph Tag, Line Break Tag, Center Tag, Horizontal Lines
- Add Core HTML Attributes like id, title, class, style
- Add frequently useful HTML Tags and Attributes like Image Tag, List Tags, Font Tag, Marquee Tag, Link Tags, Color Attributes, Alignment Attributes

2. Design a web page to use CSS to control the style and layout tag <div> for given template.

<header>	
<navigation>	
<section>	<aside>
<article>	
<footer>	

- Use <iframe> tag to check section based on navigation selection
- Modify to use external CSS file

3. Design HTML form with java script to perform following task:

- To show “You Clicked Me” message when a user clicks on button “Click Me”.
- Takes Integer number as input and tells whether the number is ODD or EVEN.
- 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.

- Enhance the experiment 4 to get the registration detail from previous page and display all information on next page using GET/POST method.
- Set background color of an element when the element (or any elements inside it) gets focus or Loses focus.
- Develop PHP scripts using variables, operators and control structures.
- 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.

9. Write a PHP script for reading the content from text file and displaying data in tabular form.
10. Write a PHP program for creating and manipulating-
 - a) Indexed array
 - b) Associative array
 - c) Multidimensional array
11. Create a database called registration. In the registration database, add a table called users. The users table will take the following four fields like id, username varchar (100), email varchar(100) and password varchar(100)
12. Write simple PHP program to
 - a. Set cookies and read it.
 - b. Demonstrate session management
13. Write a simple PHP program to demonstrate use of simple function and parameterized function.

List of Reference Books:

1. HTML 5, Black Book, 2nd Edition, Dreamtech Press, Publication Year 2015
2. Internet and World Wide Web How to program, P.J. Deitel & H.M. Deitel, 4th Edition, Pearson Publication Year 2013
3. Web Technologies, Black Book, 2nd Edition, dreamtech Press, Publication Year 2014
4. Web Design, Joel Sklar, 5th Edition, Cengage Learning, Publication Year 2012
5. Developing Web Applications in PHP and AJAX, Harwani, 1st Edition, McGrawHill,, Publication Year 2017
6. Beginning Web Programming with Html, XHTML and CSS, Jon Duckett, 2nd Edition, Publication Year 2015

e-Resources (If any):

1. <http://nptel.ac.in/courses/106105084/>
2. <https://technicalsagar.in/web-technology/>
3. <https://www.w3schools.com>
4. <https://www.geeksforgeeks.org/web-technology/>

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

CLO	Description	Bloom's Taxonomy Level
CO 1	Understand Basic control over elements.	2 Understanding
CO 2	Study client side and server side programs using scripts using Javascript/ PHP.	2 Understanding
CO 3	Hands on practice on HTML and learn the need and basics of CSS and the concepts of Client Side JavaScript.	3 Applying
CO 4	Create applications with PHP connected to database.	6 Creating
CO 5	Create Personal Information System	6 Creating
CO 6	Upgrading skill set according to latest market needs and use web testing tools.	2 Understanding

Mapping of CLOs with POs & PSOs

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes (PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	PSO 4
CLO1					M	L						H	H	M	L	
CLO2	M		H	M	L					M		M		L	H	M
CLO3		L	M		M			M	M		L	L	L	H		L
CLO4	M	M	M		L			M			M		L		M	H
CLO5	L	M	H		L		M	L	M	M		L		L		L
CLO6	M	L	M				M	L		L			M	L		L

H: High, M: Medium, L: Low