

Subject Code: 1ET1100203	Subject Title: Web Programming
Prerequisite	Fundamentals of Programming and Networking

Course Objective: This course enables students to develop knowledge on strategies used for web development and to create web pages in HTML. Moreover, they can understand practical knowledge on various web development techniques to identify various internet related technology and systematic ways of developing a website. This course also helps students to become familiar with design principles related to web designing and learn how to implement them into practice.

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture	Tutorial	Practical	Credit	Theory		Practical		Total
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
3	1	2	5	70	30	30	20	150

Subject Contents			
Sr. No	Topic	Total Hours	Weight (%)
1	Introduction to Web Technology What is the Internet? Introduction to internet and its applications, introduction to Web, HTTP Protocol, Client-Server Architecture, Web Browser & web server, HTML, Concepts of effective web design, Web design issues, web 2.0	05	10
2	HTML: Basic of HTML, Structure of HTML page, HTML tags like heading, paragraph, formatting text, organizing text, list, anchor, images, HTML, tables, HTML Forms, meta tags, HTML5 tags and validation, multimedia tags.	05	10
3	Introduction to CSS: Introduction to CSS, Basic Syntax and structure of CSS, Types of CSS, Targeting using CSS, Background Properties, Manipulating text and font, The Box Model, styling list, CSS Positioning, Introduction to CSS3	06	15
4	Introduction to JavaScript: Introduction to JavaScript, JavaScript Syntax, Types of JavaScript, variables, arrays, functions, conditions, loops, Pop up boxes like (input box , alert box ,Delete confirmation, prompt box, for Numeric Validation ,for String Validation, for E-mail Validation.), JavaScript inbuilt functions, JavaScript validations, Regular expressions, Event handling with JavaScript, Callbacks in JavaScript, Function as arguments in JavaScript, Object concepts in JavaScript, JSON.	06	15
5	Database programming with PHP: Introduction to Server side programming, PHP variables, decision Statements and looping, PHP and HTML, Arrays, Functions, Browser control and detection, String, Form processing, File uploads, Working with Regular Expressions, Exception Handling, Working with JSON data, and Object Oriented Programming with PHP.	10	25
6	Database Connectivity using MySql in PHP: Basic commands for database connection and query execution with CURD examples, Object oriented database access using PHP Session and State Management using PHP: Various techniques for state and session management like: Hidden Fields, Query String, Cookie and Session	08	20
7	Advance Topic Introduction to Bootstrap and Grid System concept, JQuery.	02	05

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

CLO	Description	Bloom's Taxonomy Level
CLO1	Describe the basics of Internet, Web and Web Designing.	1. Remembrance 2. Understanding
CLO2	Use of HTML to design static web pages.	3. Application 6. Create
CLO3	Apply styling to webpage using CSS, Java Script, JQuery.	3. Application
CLO4	Understand the concept of PHP and MySql.	2. Understanding
CLO5	Able to develop user interactive websites.	6. Create

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	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CLO1	M	M	L	L	H	-	L	L	H	L	H	H	H	M	M	L
CLO2	H	M	L	M	H	L	M	L	H	M	H	H	M	H	H	H
CLO3	H	M	L	H	H	L	L	M	H	M	H	H	M	H	M	H
CLO4	M	L	M	L	H	M	L	M	M	M	M	H	M	H	M	H
CLO5	H	M	H	L	H	M	L	L	H	H	H	H	H	H	M	H

H: High, M: Medium, L: Low

List of Book References:

1. Web Technology: A Developer's Perspective By N.P.Gopalan, J. Akilandeswari | PHI Learning
2. Developing Web Application By Ralph Moseley | Wiley India
3. Web Design The Complete Reference by Thomas Powell, Tata McGraw Hill
4. HTML5 Step by Step Faithe Wempen Microsoft Press
5. PHP 5.1 for Beginners Ivan Bayross Sharanam Shah,SPD
6. PHP 6 and MySQL Bible Steve Suehring,Tim Converse, Joyce Park Wiley
7. Head First HTML 5 programming Eric Freeman O'Reilly
8. JavaScript 2.0 : The Complete Reference Thomas Powell and Fritz Schneider Tata McGraw Hill

E-Resources / Web Links

1. <https://www.w3schools.com/whatis/>
2. <https://www.tutorialspoint.com/seo/index.htm>
3. <https://developer.mozilla.org/en-US/docs/Web/HTML>
4. <https://www.w3schools.com/php/>
5. <https://www.tutorialspoint.com/php/index.htm>

List of Experiments:

Note: The experiment list provided beneath is for reference only. The course teacher may change/formulate it as per his/her methodology and requirement.

Sr. No.	Practical Name
1.	To Make HTML table and list of this practical list document.
2.	To Make HTML Web page using various form tags
3.	To Create Navigation frames in HTML.
4.	To Create a simple frame using multiple web pages.
5.	To Change Background color for web page using CSS
6.	To Set the background image for web page using internal CSS
7.	To Set image on the web page using positioning internal CSS
8.	To Change Background color ,Header font size etc for web page using External CSS
9.	To Create a javascript for the followings 1). For the alert box. 2). For Delete confirmation. 3). for Prompt Box
10.	To Create javascript for Check the validation for the following. 1). for Numeric Validation . 2). for String Validation 3). for Email Validation