

Branch Name:	Bachelor of Technology (COMPUTER ENGINEERING / INFORMATION TECHNOLOGY / ARTIFICIAL INTELLIGENCE AND DATA SCIENCE / INFORMATION AND COMMUNICATION TECHNOLOGY)
Semester/Year:	Semester V/ Third Year
Subject Title:	Web Programming
Subject Code:	2ET1030502T
Pre-requisite:	Fundamentals of Programming and Networking

Course Objective:

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

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.	
3	3	-	-	3	24	60	16	40	-	-	-	-	100

Subject Contents				
Sr. No	Topic	Total Hours	Weightage (%)	
1	Introduction: Concept of WWW, Internet and WWW, HTTP Protocol : Request and Response, Web browser and Web servers, Features of Web 2.0	02	5	
2	Web Design: Concepts of effective web design, Web design issues including Browser, Bandwidth and Cache, Display resolution, Look and Feel of the Website, Page Layout and linking, User centric design, Sitemap, Planning and publishing website, Designing effective navigation	06	10	
3	HTML: Basics of HTML, formatting and fonts, commenting code, color, hyperlink, lists, tables, images, forms, XHTML, Meta tags, Character entities, frames and frame sets, iframe, Browser architecture and Web site structure. Overview and features of HTML5	03	10	
4	Style sheets: Need for CSS, introduction to CSS, basic syntax and structure, using CSS, background images, colors and properties, manipulating texts, using fonts, borders and boxes, margins, padding lists, positioning using CSS, CSS2, Overview and features of CSS3	06	15	

5	JavaScript: Client side scripting with JavaScript, variables, functions, conditions, loops and repetition, Pop up boxes, Advance JavaScript: JavaScript and objects, JavaScript own objects, the DOM and web browser environments, Manipulation using DOM, forms and validations, DHTML Combining HTML, CSS and JavaScript, Events and buttons	06	15
6	JQuery: Fundamentals of JQuery, JQuery With HTML	04	10
7	PHP: Introduction and basic syntax of PHP, decision and looping with examples, PHP and HTML, Arrays, Functions, Browser control and detection, string, Form processing, Files, Advance Features: Cookies and Sessions, Object Oriented Programming with PHP	04	15
8	PHP and MySQL: Basic commands with PHP examples, Connection to server, creating database, selecting a database, listing database, listing table names, creating a table, inserting data, altering tables, queries, deleting database, deleting data and tables, PHP myadmin and database bugs	05	10
9	Bootstrap: Introduction to Bootstrap, Bootstrap Grid System concept	03	10

Course Outcome:

On completion of this course, the students will be able to:

- To understand the working of website and internet.
- Using programming skill of HTML, Java Script, XML, PHP and MySql, Bootstrap and JQuery.
- Students will be able to develop a user interactive websites.
- The students will able to design of a web page according to client requirement and manage the content as improve the readability.

List of Reference Books:

- 1 Head First HTML with CSS & XHTML, by Elisabeth Freeman and Eric Freeman
- 2 HTML 5, Black Book, dreamtech Press
- 3 Internet and World Wide Web How to program, P.J. Deitel & H.M. Deitel, Pearson
- 4 Web Technologies, Black Book, dreamtech Press
- 5 Web Design, Joel Sklar, Cengage Learning
- 6 Developing Web Applications in PHP and AJAX, Harwani, McGrawHill
- 7 The Web Designer's 101 Most Important Decisions Professional Secrets for a Winning Website, Scott Parker, Paperback
- 8 Beginning Web Programming with Html, XHTML and CSS, Jon Duckett

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/>

Co No.	Course Outcomes	Cognitive Level
CO 1	Understand Basic control over elements.	L2 Understand
CO 2	Study client side and server side programs using scripts using Javascript/PHP.	L2 Understand
CO 3	Hands on practice on HTML and learn the need and basics of CSS and the concepts of Client Side JavaScript.	L3 Apply
CO 4	Create applications with PHP connected to database.	L3 Create
CO 5	Create Personal Information System	L2 Create
CO 6	Upgrading skill set according to latest market needs and use web testing tools.	L2 Understand

Mapping of COs with POs & PSOs

Course Outcome	PO												PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	H	H	H		H							M	M	M
CO 2	H	H	H		H							M	M	M
CO 3						H		M						
CO 4	M	H	M	M		M	L	M						
CO 5	H	H	H		H							M	L	M
CO 6	H	H	H	M	H							M	L	M

H: High, M: Medium, L: Low