Branch: BCA	Semester-I
Subject Code: 1103	Lecture: 04 Credit: 04
Course Opted	Core Course-2 (Theory)
Subject Title	WEB PROGRAMMING

Course Objectives:
- To give insight about latest technologies to design and develop web applications using client- side scripting, server-side scripting, and database connectivity.

Course Outcomes:
- To design web pages using HTML5 language, applying stylish information to web pages using CSS.
- To develop interactive web pages using JavaScript.
- To develop dynamic pages on the web server using PHP language and implement Database Driven Websites.
- Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites
- To develop and implement client-side and server-side scripting language programs

Module	Sr. No.	Topic and Details	No. of Lectures Assigned	Marks Weightage
UNIT- I	1.	**Introduction to web and Security Concepts** HTTP:Overview – HTTP Basics, Client request, Server response; HTTP Headers; Session Management – Persistent connections, Cookies. General concepts on web server: Configuration and Administration; virtual hosting, General concepts of caching proxy server , Web security, Digital signatures, Digital Certificates, Encryption, and Authentication	8	16
	2.	**HTML5** Basics of HTML elements and Tags. Introduction of HTML5 (evolutions, limitation of HTML4, advantages of HTML5, Overview of HTML5)	2	4
UNIT- II	3.	**Page Layout of Semantic Elements** (Header, Navigation, Section & Articles, Footer, aside and more. Organizing Text in HTML, Links and URLs in HTML, Tables in HTML, Images on a Web Page, Image Formats, Image Maps, Colors, FORMs in HTML, Frames in HTML Interactive Elements, Working with Multimedia - Audio and Video File Formats, HTML elements for inserting Audio / Video on a web page	7	14
	4.	**HTML5 Web Forms** HTML 5 Global Attributes Displaying a Search Input Field, Contact Information Input Fields, Utilizing Date and Time Input Fields, Number Inputs, Selecting from a Range of Numbers, Selecting Colors, Creating an Editable Drop-Down, Requiring a Form Field, Autofocusing a Form Field, Displaying Placeholder Text, Disabling Autocomplete,	7	14

		Restricting Values		
UNIT-III	5.	**CSS:** Understanding the Syntax of CSS, CSS Selectors, Inserting CSS in an HTML Document, CSS properties to work with background of a Page, CSS properties to work with Fonts and Text Styles, CSS properties for positioning an element	8	16
	6.	**JavaScript:** Using JavaScript in an HTML Document, Programming Fundamentals of JavaScript - Variables, Operators, Control Flow Statements, Popup Boxes, Core JavaScript (Properties and Methods of Each) : Array, Boolean, Date, Function, Math, Number, Object, String, regExp, Events and Event Handlers, Browser Objects - Window, Navigator, History, Location, Document, Cookies, Document Object Model, Form Validation using JavaScript.	12	24
UNIT-IV	7.	**INTRODUCTION TO PHP AND SQL**: - Server-side web scripting, Installing PHP, SQL, Adding PHP to HTML, Syntax and Variables, Passing information between pages.	6	12
		TOTAL	**50**	**100**

Text Book :

1. Web Programming, Guy W. Lecky Thompson, 2009, Cengage Learning

Reference Books:

1. Web Design The complete Reference, Thomas Powell, Tata McGrawHill

2. HTML and XHTML The complete Reference, Thomas Powell, Tata McGrawHill

3. JavaScript 2.0 : The Complete Reference, Second Edition by Thomas Powell and Fritz Schneider

4. PHP : The Complete Reference By Steven Holzner, Tata McGrawHill