



K. S. INSTITUTE OF TECHNOLOGY
 An Autonomous Institution under VTU, Approved by AICTE
 Department of Computer Science and Engineering
FIRST / SECOND SEMESTER SYLLABUS

Introduction to Web Programming		Semester	I/II
Course Code	225BPLC105C /205C	CIE Marks	50
Teaching Hours/Week (L:T:P:S)	3:0:0:0	SEE Marks	50
Total Hours of Pedagogy	40 Hours	Total Marks	100
Credits	03	Exam Hours	03
Examination type (SEE)	Theory		

Course objectives

- To use the syntax and semantics of HTML and XHTML
- To develop different parts of a web page
- To understand how CSS can enhance the design of a webpage.
- To create and apply CSS styling to a webpage
- To get familiarity with the JavaScript language and understand Document Object Model handling of Java Script

Module-1

Module-1: Traditional HTML and XHTML:

First Look at HTML and XHTML, Hello HTML and XHTML World, HTML and XHTML: Version History, HTML and XHTML DTDs: The Specifications Up Close, (X)HTML Document Structure, Browsers and (X)HTML, The Rules of (X)HTML, Major Themes of (X)HTML, The Future of Markup—Two Paths?

TextBook1: Chapter 1

Number of Hours: 08

Module-2

Module-2: HTML5:

Hello HTML5, Loose Syntax Returns, XHTML5, HTML5: Embracing the Reality of Web Markup, Presentational Markup Removed and Redefined, HTML5 Document Structure Changes, Adding Semantics, HTML5's Open Media Effort, Client-Side Graphics with <canvas>, HTML5 Form Changes, Emerging Elements and Attributes to Support Web Applications

TextBook1: Chapter 2

Number of Hours: 08

Module-3

Module-3: Cascading Style Sheets (CSS) Introduction, CSS Overview, CSS Rules, Example with Type Selectors and the Universal Selector, CSS Syntax and Style, Class Selectors, ID Selectors, span and div Elements, Cascading, style Attribute, style Container, External CSS Files, CSS Properties, Color Properties, RGB Values for Color, Opacity Values for Color, HSL and HSLA Values for Color, Font Properties, line-height

Property, Text Properties, Border Properties, Element Box, padding Property, margin Property Case Study: Description of a Small City's Core Area.

TextBook2:- Chapter 3

Module-4	
Module-4: Tables and CSS, Links and Images Table Elements, formatting a Data Table: Borders, Alignment, and Padding, CSS Structural Pseudo- Class Selectors, thead and tbody Elements, Cell Spanning, Web Accessibility, CSS display Property with Table Values, a Element, Relative URLs, Navigation Within a Web Page, CSS for Links, Bitmap Image Formats: GIF, JPEG, PNG, img Element, Responsive Images, Positioning Images, Shortcut Icon, iframe Element.	
TextBook2: 5.2 to 5.8, 6.2, 6.3, 6.6., 6.7, 6.9, 6.10, 6.12, 7.2 to 7.4	Number of Hours: 08
Module-5	
Module-5: Introduction to JavaScript: Functions, DOM, Forms, and Event Handlers History of JavaScript, Hello World Web Page, Buttons, Functions, Variables, Identifiers, Assignment Statements and Objects, Document Object Model, Forms and How They're Processed: Client-Side Versus Server-Side, form Element, Controls, Text Control, accessing a Form's Control Values, reset and focus Methods	
TextBook2: 8.2 to 8,13, 8.15, 8.16	Number of Hours: 08
Suggested Learning Resources Textbooks:	
TextBook-1: HTML & CSS: The Complete Reference Thomas A. Powell, , Fifth Edition, Tata McGraw Hill,	
<p>Course outcome (Course Skill Set) At the end of the course, the student will be able to: CO1: Explain the historical context and justification for HTML over XHTML CO2: Develop HTML5 documents and adding various semantic markup tags CO3: Apply Cascading Style Sheets (CSS) to control layout, typography, colors, and box model properties CO4: Design and style web pages using tables, links, and images with appropriate CSS properties to ensure accessibility, responsiveness, and visual appeal. CO5: Apply JavaScript concepts such as functions, DOM manipulation, forms, and event handling to develop dynamic and interactive web applications.</p>	
<p>Web links and Video Lectures (e-Resources) https://onlinecourses.swayam2.ac.in/aic20_sp11/preview</p>	
<p>Teaching-Learning Process These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes and make Teaching –Learning more effective</p> <ol style="list-style-type: none"> 1. Use https://pythontutor.com/visualize.html#mode=edit in order to visualize the operations of Javascripts 2. Chalk and talk 3. Onine demonstration 4. Hands on problem solving 	
<p>Assessment Details (both CIE and SEE) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50). The minimum passing mark for the SEE is 35% of the maximum marks (18 marks out of 50). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 35% (18 Marks out of 50) in the semester-end examination(SEE), and a minimum of 40% (40 marks out of 100) in the sum total of the CIE</p>	

(Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation(CIE):

The Total CIE marks :50 marks

Continuous Comprehensive Assessments (CCA):

CCA will be conducted for a total of 25 marks. It is recommended to include a maximum of two learning activities aimed at enhancing the holistic development of students. These activities should align with course objectives and promote higher-order thinking and application-based learning.

Learning Activity -1: **Marks- 15**

Learning Activity -2 : **Marks-10**