

Branch Name:	IMCA
Program Code:	2CS301
Course Name:	Web Technology-I Practical
Course Code:	2CS3010102P
Pre-requisite Course:	Basic knowledge of computer fundamentals and the Internet.

Course Objective:

1. To understand the fundamental concepts of Web Technology, Internet, World Wide Web (WWW), and Web Standards.
2. To develop structured and semantic web pages using HTML5 elements and attributes.
3. To design web pages using HTML5 tables, multimedia, forms, and hyperlinks.
4. To apply CSS3 selectors, properties, and layout techniques for effective web page presentation.
5. To design user-friendly, standards-compliant, and responsive static web pages using HTML5 and CSS3.

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
-	-	4	2	-	-	25	25	50

LAB/Practical:

Part I: HTML

Sr. No.	List of Laboratory Experiments
1	Design a basic HTML5 web page using the standard HTML document structure.
2	Demonstrate the use of HTML5 text formatting tags and HTML entities.
3	Design a web page using block-level and inline elements (<div> and).
4	Design a web page demonstrating ordered, unordered, description, and nested lists.
5	Design a web page using different types of hyperlinks.
6	Design a web page to display images using various image attributes.
7	Design a web page using HTML5 semantic elements.
8	Design a web page demonstrating HTML5 audio and video elements.

9	Design a web page to display tabular data using HTML tables.
10	Design a web page using HTML tables with table sections (<thead>, <tbody>, <tfoot>), nested tables, and column grouping..
11	Design a web page using HTML5 IFrames to embed another web page or multimedia content.
12	Design a Student Registration Form using HTML5 form elements.
13	Design an HTML5 Registration Form using various input types and basic form validation.
14	Design a Personal Portfolio web page using HTML5.

Part-II: CSS3

Sr. No.	List of Laboratory Experiments
15	Apply Inline, Internal, and External CSS to an HTML5 web page.
16	Create a web page demonstrating different CSS selectors (Element, Class, ID, Universal, Grouping, Descendant, Child, Attribute, and Pseudo-class).
17	Apply CSS properties to format text, fonts, colors, backgrounds, and borders.
18	Create a web page demonstrating the CSS Box Model using margin, border, and padding.
19	Design a web page using CSS properties for lists, tables, and borders.
20	Design a web page demonstrating CSS display, positioning, float, and overflow properties.
21	Design a multi-page static website layout using HTML5 and CSS3

Mini Project

22	Design and develop a responsive static website consisting of at least five interconnected web pages using HTML5 and CSS3.
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Text Books:

1. **Jon Duckett**, *HTML and CSS: Design and Build Websites*, Wiley.
2. **Jennifer Robbins**, *Learning Web Design: A Beginner's Guide to HTML5, CSS3, JavaScript and Web Graphics*, O'Reilly Media.
3. **Thomas A. Powell**, *HTML & CSS: The Complete Reference*, McGraw-Hill Education.

Reference Books:

1. **Steven M. Schafer**, *HTML, XHTML and CSS: Bible*, Wiley.
2. **Robin Nixon**, *Learning PHP, MySQL & JavaScript*, O'Reilly Media. (Useful for future web development courses.)

3. **David Sawyer McFarland**, *CSS: The Missing Manual*, O'Reilly Media.

List of Open Source Software/learning website:

1. www.w3school.com
2. www.tutorialspoint.com
3. www.geeksforgeeks.org
4. <https://developer.mozilla.org>
5. <https://www.freecodecamp.org>

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

CLO	Description	Bloom's Taxonomy Level
CLO1	Explain the fundamentals of Web Technology, Internet architecture, and Web Standards.	2 Understanding
CLO2	Develop static web pages using HTML5 elements, tags, attributes, lists, hyperlinks, tables, and multimedia.	3 Applying
CLO3	Design web forms using HTML5 form elements, input controls, and basic form validation techniques.	3 Analyzing
CLO4	Apply CSS3 selectors, properties, and styling techniques to format web pages.	3 Applying
CLO5	Design structured and visually appealing web page layouts using HTML5 and CSS3.	6 Creating
CLO6	Develop standards-compliant and user-friendly web pages by integrating HTML5 and CSS3 concepts.	6 Creating

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
CLO1	H	M	-	-	L	-	L	-		-	-	-	H	L
CLO2	H	M	H	-	M	-	-	-	L	-	-	-	H	M
CLO3	H	H	H	-	M	-	-	-	L	-	-	-	H	M
CLO4	M	M	H	-	H	-	-	-	-	-	-	-	H	H
CLO5	M	H	H	L	H	-	L	-	M	-	L	L	H	H
CLO6	H	H	H	L	H	L	M	L	M	L	L	M	H	H