BCA/Integrated MCA 2nd Semester

Teaching Schedule 030010210/060060208: CC6 Introduction to Web Design

Objective: To provide basic knowledge of web and HTML for designing web pages in conjunction with HTML tags, text, videos and CSS and event handling using JavaScript.

Course Outcomes: Upon completion of the course, students shall be able to

CO1: Determine usage and working of Web.

CO2: Express and understanding of basic HTML and CSS structures.

CO3: Design web pages using CSS.

CO4: Designing application forms and frames in web pages using CSS.

CO5: Design attractive web pages with graphics and layouts using CSS.

CO6: Employ JavaScript within HTML.

Unit	Sub Unit	No. of Lectu re(s)	Topics	Reference Chapter/Additional Reading	Teaching Methodology	Evaluation Parameter
Unit-1	l: The V	Veb				
1	1.1		Introduction	MMD#1 Page No. 1-2	Discussion	
	1.2	1	Web Browser, Web Server	MMD#1 Page No. 8-12	PPT	
	1.3		Internet	BR#1 Page No. 1-11	rrı	
	1.4	2	Planning Website: Types of Sites, Lifespan of Site, Practice Good Design	MMD#1 Page No. 13-17	Discussion, PPT	Quiz, Theory Unit Test-1
	1.5	1	Web Hosting: the URL	MMD#3 Page No. 49-53	Discussion, PPT	Assignmen
	1.6	1	Domain Names and IP Address	MMD#3 Page No. 54-61	Discussion, PPT	
	1.7	1	Transferring Files: FTP, Browser- Based Uploading	MMD#3 Page No. 72-76	Chalk & talk, PPT	
Unit-2	2: HTMI	and Cas	scading Style Sheets			
2	2.1	1	Introduction: HTML	MMD#2 Page No. 19-20	Chalk & talk	
	2.2	2	HTML Document: Basic Skeleton, Adding Contents, Structuring Text, HTML Elements and Nesting Elements	MMD#2 Page No.27- 29,32-36	PPT, Demonstration	Quiz, Practical & Theory
	2.3	1	HTML Elements: Paragraph, Line Breaks, Heading, Horizontal Lines, Preformatted Text	MMD#5 Page No. 107- 114	PPT, Demonstration, Two minutes game	Unit Test-1 Assignmen t
	2.4		Introduction to CSS	PB#14 Page No. 274	PPT,	

		1		http://www.w3schools.	Demonstration	
	2.5			com/css/css intro.asp		
	2.5		Syntax and Structure of CSS	http://www.w3schools.com/css/css syntax.asp		
			Class and ID Selectors, Pseudo	JST#6 Page No. 157 -	РРТ,	-
			Selector, Measurement Units	159	Demonstration,	
		_	Selector, Measurement office	JST#6 Page No. 160 -	Two minutes game	
	2.6	2		164	1 o minutes game	
				JST#7 Page No. 170 –		
				173]
	2.7		External Style Sheets, Embedded	PB#14 Page No. 299-	Chalk & talk,	
		2	Style Sheets and Inline Style	312	PPT,	
			Sheets		Demonstration	
	3: HTML	. Forma	tting, Listing, Linking and Table Ele	1	DD.	
3	3.1		HTML Formatting Elements: Look and Character Elements	PB #7 Page No. 138 –	PPT,	
	3.1	2	and Character Elements	153	Demonstration	
	3.2	1	Type of Listing and Listing	MMD#5 Page No. 119-	PPT,	
	3.2	1	Elements, Nested Listing	123	Demonstration	ļ
			Web Typography: CSS Font	JST#7 Page No.174 - 187	PPT,	
	0.0		properties, CSS Text spacing	PB#14 Page No.283 –	Demonstration	_
	3.3	2	properties, Customizing Bulleted	286		Theory &
		3	and Numbered Lists	http://www.w3schools. com/css/css list.asp		Practical Unit Test-
			HTML Linking Elements: Internal	MMD#8 Page No. 213-	PPT,	1, Open
	3.4	1	and External Links, Relative	225	Demonstration	Book,
		1	Links, Mailto Link			Assignmen
	3.5	1	Website navigation using CSS	http://www.w3schools.	Demonstration	t
		_	AMBAG M. I.I. DI	com/css/css navbar.asp	GL 11 0 . 11	-
	3.6		HTML Table Elements	PB#11 Page No.220 – 230	Chalk & talk,	
	3.0	1		230	Demonstration, Code rearrange	
			Applying properties in HTML	PB#11 Page No.226	Chalk & talk,	-
	3.7		Table: Margin, Padding and	12/11/1460 110/1100	Demonstration	
		1	Border			
Unit-4	: HTMI	Forms	& Frames			
4		1	Forms working	JST#12 Page No. 316 -	PPT,	Open
	4.1			317	Discussion	Book,
				PB#12 Page No. 238		Theory &
		_	Form Element, Input Objects: text,	PB#12 Page No. 238-	Demonstration	Practical
		1	password, checkbox, radio,	243		Unit Test-
	4.2		submit, reset	JST#12 Page No. 318 -		2,
				322		Assignmen
						t

	4.3	2	Input Objects grouping and <select>, <option> AND <textarea> Elements Styling Forms with CSS,
Styling Forms within Tables</th><th>PB#12 Page No. 244-
249
JST#12 Page No. 325 -
329
http://www.htmlgoodie
s.com/tutorials/forms/a
rticle.php/3888746/HT</th><th>Demonstration PPT, Demonstration</th><th></th></tr><tr><td></td><td></td><td></td><td></td><td>ML-Forms-From-Basics-
to-Style-Layouts.htm</td><td></td><td></td></tr><tr><td></td><td>4.5</td><td>1</td><td>Frames</td><td></td><td></td><td></td></tr><tr><td></td><td>4.6</td><td>2</td><td>Frame Elements: <FRAMESET>, <FRAME>, <NOFRAMES> and <IFRAME></td><td>JST#11 Page No. 292-
299</td><td>Chalk & talk,
Demonstration</td><td></td></tr><tr><td></td><td>4.7</td><td>2</td><td>Customizing Frame
Characteristics</td><td>JST#11 Page No. 299-
308</td><td></td><td></td></tr><tr><td>Unit-5</td><td>: Addin</td><td>ig Graph</td><td>ics and Page Layout</td><td></td><td></td><td></td></tr><tr><td>5</td><td>5.1</td><td>2</td><td>Images: The Element,
Alternate text, Picture Size, File
Format for Graphics, Putting
Pictures on Colored Background</td><td>MMD#7 Page No. 183-
193</td><td>PPT,
Demonstration</td><td>The care 0</td></tr><tr><td></td><td>5.2</td><td>3</td><td>Images and Styles: Inline Images
in Text, Borders, Wrapping Text
Around an Images, Adding
Captions, Background Images</td><td>MMD#7 Page No. 194-
204</td><td>PPT,
Demonstration</td><td>Theory & Practical Unit Test- 2,</td></tr><tr><td></td><td>5.3</td><td>1</td><td>Image Links and Image Map</td><td>MMD#8 Page No. 226-
229</td><td>PPT,
Demonstration</td><td>Assignmen
t</td></tr><tr><td></td><td>5.4</td><td>2</td><td>Style based Layout: Structuring pages with <div> element, Floating Boxes, Fixed Boxes</td><td>MMD#9 Page No. 243-
246</td><td>PPT,
Demonstration</td><td></td></tr><tr><td>Unit-6</td><td>5: Java S</td><td>cript</td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td>6.1</td><td>2</td><td>Java Script: Introduction, Server-side and Client-side programming, Scripting Language</td><td>MMD#15 Page No. 423-
426</td><td>PPT,
demonstration</td><td></td></tr><tr><td></td><td>6.2</td><td>1</td><td><SCRIPT> Element</td><td>MMD#15 Page No. 426-
431</td><td>Demonstration</td><td>Assignmen</td></tr><tr><td></td><td>6.3</td><td></td><td>Variables and Data Types</td><td>MMD#15 Page No. 431-
434</td><td>Demonstration</td><td>t</td></tr><tr><td></td><td>6.4</td><td>1</td><td>Functions</td><td>MMD#15 Page No. 434-
440</td><td>Demonstration</td><td></td></tr><tr><td></td><td>6.5</td><td>1</td><td>Dialog Boxes: Alert, Confirm and Prompt boxes</td><td>BR#8 Page No. 143-147</td><td>Demonstration</td><td></td></tr></tbody></table></textarea></option></select>
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Text Book:

1. Matthew MacDonald - Creating a Website : The missing manual SPD - O'Reilly [MMD]

References:

- 1. Joel Sklar, Web Design Principles, CENGAGE Learning [JSW]
- 2. Joel Sklar, Textbook of Web Design, CENGAGE Learning [JST]
- 3. Bayross Web Enabled Commercial Application Development BPB Publication [BR]
- **4.** Patel and Barik Introduction to Internet & Web Designing Acme Learning [PB]
- **5.** Elizabeth Robson & Eric Freeman-Head First HTML and CSS-O'Reilly[EEHC]
- **6.** Rob Larson-Beginning HTML and CSS-Wiley Publishing Inc[RB]

Note: # denotes chapter number.

Course Objectives and Course Outcomes Mapping:

Understanding of Web: CO1 Understanding of HTML: CO2

Designing web pages: CO3, CO4, CO5

HTML tags, text, videos and CSS: CO2, CO3, CO4, CO5

Event handling using JavaScript: CO6

Course Units and Course Outcomes Mapping:

Unit No.	Units		С	ourse	Outcon	nes	
		CO1	CO2	CO3	CO4	CO5	C06
1	The Web	✓					
2	HTML and Cascading Style Sheets		✓		✓		✓
3	HTML Formatting, Listing, Linking and Table Elements		~	√			
4	HTML Forms & Frames		✓	✓	✓		
5	Adding Graphics and Page Layout		✓		✓	✓	
6	Java Script						√

Course Outcomes and Programme Outcomes Mapping:

Programme Outcomes:

PO1: Proficiency in and ability to identify problems related to computer science as well as design and apply computational knowledge to solve them.

PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification.

PO3: Understanding of professional and ethical role and responsibility.

PO4: Recognition of the need for and ability towards life-long learning.

PO5: Knowledge of programming languages, database systems, operating systems, software

engineering, Web & Mobile technology and relevant modern issues.

PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development.

Course Outcomes	Programme Outcomes						
	P01	PO2	PO3	PO4	PO5	P06	
CO1	✓	✓			✓	✓	
CO2	✓	✓		✓	✓	✓	
CO3	✓	✓		✓	✓	✓	
CO4	✓	✓		✓	✓	✓	
CO5	✓				✓	✓	
CO6	✓	✓		✓	✓	✓	

Computing Environment

A student must have the following computing environment in laboratory and or on his/her laptop.

- Latest version of any Web Browser
- ❖ Notepad/gedit editor

Modes of Transaction (Delivery):

Unit No	Topic Detail	Teaching Approach	PO mapped
2	HTML Elements and CSS	Two-minute game (Students have to pick one chit on the spot and have to give some explanation on the element or property which is written on the chit within one minute.)	PO2, PO5, PO6
3	HTML Table Elements	Code arrangement (Students have to arrange scattered	P01, P02, P05

designing code of webpage based on layout given by the course teacher.)	

Activities/Practicum:

The following activity shall be carried out by the students.

Self Study:

❖ Study HTML elements: Paragraph, LineBreaks and Horizontal lines.

The following activity shall be carried out by the teacher.

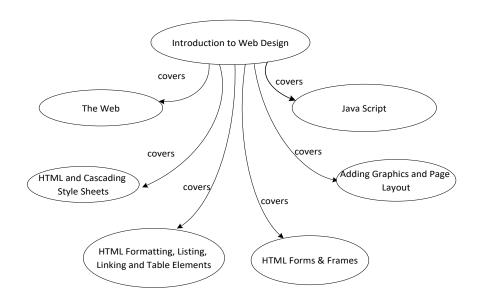
Learner	Activities to be done	PO mapped
For slow learners	Students have to solve question on black board which are assigned to them.	P02
For advanced learners	Students have to write a code for layout which is provided by subject teacher.	PO2, PO6
For all	Assign 2 or 3 questions after the end of week, and students have to write in their note book. The best answer will be discussed in class.	PO2

Number of Practical Problems in Journal: 20

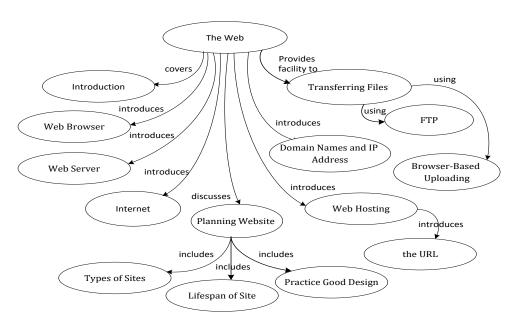
Total sets to be developed for each division: 02

Unit Number	Number of Questions	Time required to implement and debug the question (in hours)	Minimum required of Journal Certification
Unit -2	5	6	5
Unit -3	4	12	4
Unit -4	5	14	4
Unit -5	4	12	4
Unit -6	2	4	1
TOTAL	20	48	18

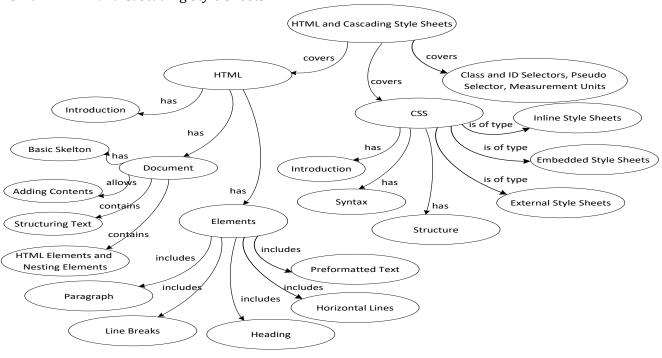
Concept Map:



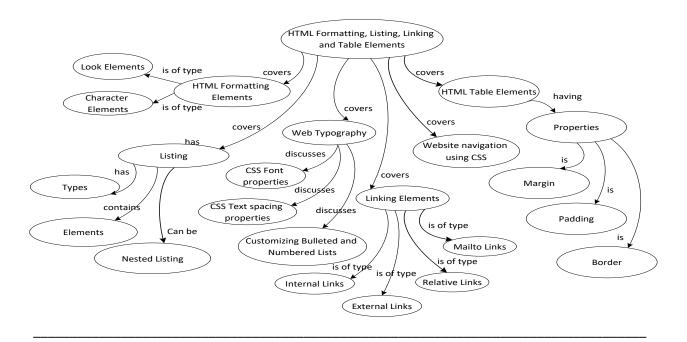
Unit-1: The Web



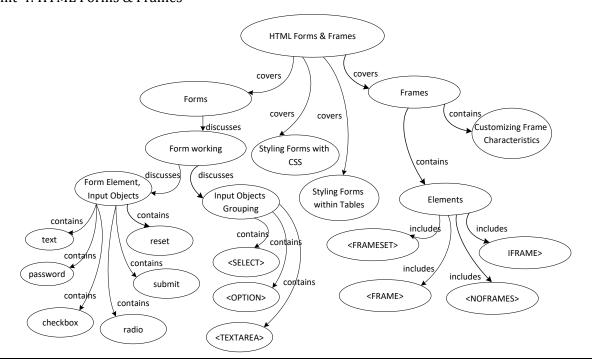
Unit-2: HTML and Cascading Style Sheets



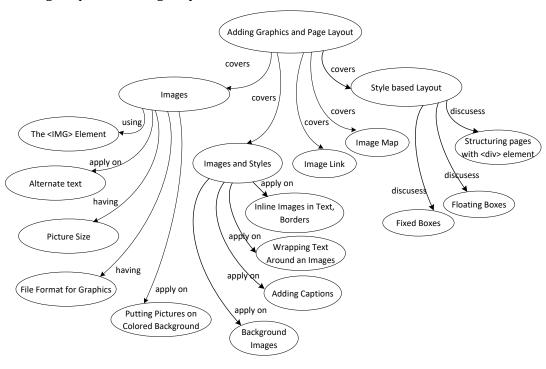
Unit-3: HTML Formatting, Listing, Linking and Table Elements



Unit-4: HTML Forms & Frames



Unit-5: Adding Graphics and Page Layout



Unit-6: JavaScript

