

Semester Lecture Plan									
Name of the college: Government College of Arts, Science and Commerce, Sanquelim - Goa									
Name of Faculty: Shubham Naik					Subject: Computer Science		Division:		
Paper code: CSC-142 Multimedia and Web Design					Program/Course: F.Y.B.Sc.		Total Lectures: 15		
Academic year: 2024- 2025					Semester: I				
<p>Course Objectives:</p> <ul style="list-style-type: none"> To introduce the basic concepts of Multimedia and Web Designing To develop skills and competencies in image, video editing. To acquire and develop skills to create web pages using HTML, CSS, Bootstrap and JavaScript 									
<p>Course Outcomes:</p> <p>On successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> Create and edit images, audio and video Build websites using the elements of HTML. Build interactive and stylish websites using the client-side programming techniques with CSS and JavaScript. Learn to validate client-side data. Define the structure and contents of the website using different features of CSS 									

Student Learning Outcomes**Understand the basic concept of Color Theory****Understand the basic concept of Computer Graphics****Understand the basic concept of Sound****Understand the basic concept of video****Understand the basic concept of Web Architecture, HTML****Understand the structure of HTML and its working****Understand the basic concept of CSS****Understanding the working of CSS****Understand the basic concept of JavaScript****Understand the working of Javascript**

Month	Lectures		No. of lectures allotted	Topic, Subtopic to be covered	Exercise/Assignment	ICT Tools	Reference books
	From:	To:					
July	14/07/24	20/07/24	1	Unit 1 - Color Theory Color Basics, Color Systems, Color Wheel, Complementary Colors, After Images, Color Combinations, Color & Contrast,	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.

	22/07/24	27/07/24	1	Itten's Contrasts, Proportion & Intensity, Contrast & dominance, Shades & Tints,	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	
	29/07/24	03/08/24	1	Color Studies, Color Gamut, ICC profiles, Gamma Correction.	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	
Aug	05/08/24	10/08/24	1	Unit 2 Computer Graphics Difference between Raster and Vector Graphics , Raster graphics : resolution, image compression, file formats, manipulation, Geometrical transformations,	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill,	

							Eighth Edition.	
	12/08/02	17/08/24	1	Vector graphics – fundamentals, file formats, shapes, transforms and filters.	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, “Mastering HTML, CSS & JavaScript 2-Tay Vaughan, “Multimedia Making It Work”; Mc Graw Hill, Eighth Edition.	
	19/08/24	24/08/24	1	Unit 3 Sound : Sound Design, Audio Codec & file formats, processing sound, Compression	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, “Mastering HTML, CSS & JavaScript 2-Tay Vaughan, “Multimedia Making It Work”; Mc Graw Hill, Eighth Edition.	

	26/08/24	31/08/24	1	Unit 4 Video : Aspect Ratio Frame Size, Frame Rate, Regions, Video Codec & Formats, Processing.	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, “Mastering HTML, CSS & JavaScript 2-Tay Vaughan, “Multimedia Making It Work”; Mc Graw Hill, Eighth Edition.	
Sept	02/09/24	07/09/24	1	Unit 5 Web Architecture, HTML : Introduction to internet and web design. Basic concepts of web architecture.	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, “Mastering HTML, CSS & JavaScript 2-Tay Vaughan, “Multimedia Making It Work”; Mc Graw Hill, Eighth Edition.	
	09/09/24	14/09/24	1	Introduction to hypertext mark-up language (html), creating web pages, lists, hyperlinks,	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, “Mastering HTML, CSS & JavaScript 2-Tay Vaughan, “Multimedia Making It Work”; Mc Graw Hill,	

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	19/09/24	21/09/24	1	tables, web forms, inserting images.	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	
	23/09/24	28/09/24	1	Unit 6 Cascading style sheet (CSS) : Concept of CSS, creating style sheet, Importing style sheets, CSS properties,	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	

	30/09/24	05/10/24	1	CSS styling (background, text format, controlling fonts),	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	
Oct	07/10/24	12/10/24	1	CSS rules, Style Types, CSS Selectors, working with block elements and objects, working with lists and tables, CSS id and class, box Model.	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	
	14/10/24	19/10/24	1	Unit 7 Basics of JavaScript : Document object model, data types and variables, functions, methods and events,	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill,	

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	21/10/24	26/10/24	1	controlling program flow, built-in objects and operators, validations.	Assignment	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	
Month	Practicals		No. of practicals allotted	Experiments/Topics to be covered	Experiment/Assignment	ICT Tools	Reference books	
	From:	To:						

Jul	14/07/24	20/07/24	1	HTML create basic html structure,create hyperlink,insert image in html create ordered list,create html tables,create colspan and rowspan	Practicals	Microsoft PowerPoint Presentatio n	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, “Mastering HTML, CSS & JavaScript 2-Tay Vaughan, “Multimedia Making It Work”; Mc Graw Hill, Eighth Edition.	
	22/07/24	27/07/24	1	create forms,create radio buttons,create checkbox,create listing multiple options create navigation,create video and audio	Practicals	Microsoft PowerPoint Presentatio n	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, “Mastering HTML, CSS & JavaScript 2-Tay Vaughan, “Multimedia Making It Work”; Mc Graw Hill, Eighth Edition.	
	29/07/24	03/08/24	1	CSS inline css,external css,adding background color,padding margin,text align,border with property style hyperlinks,class selectors	Practicals	Microsoft PowerPoint Presentatio n	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, “Mastering HTML, CSS & JavaScript 2-Tay Vaughan, “Multimedia Making It Work”; Mc Graw Hill,	

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Aug	05/08/24	10/08/24	1	<p>create and style list using css,change the display and visibility of elements using css</p> <p>control size and position of elements using css,add shadows and gradients to elements using css</p> <p>apply styles to images using css,create and style basic css animations and transitions</p>	Practicals	Microsoft PowerPoint Presentation	<p>1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript</p> <p>2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.</p>	
	12/08/02	17/08/24	1	<p>use css pseudo classes to style elements,basic css layouts using floats and clear properties</p> <p>style form elements</p>	Practicals	Microsoft PowerPoint Presentation	<p>1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript</p> <p>2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.</p>	

	19/08/24	24/08/24	1	<p>Bootstrap</p> <p>include bootstrap in html using CDN</p> <p>include bootstrap in html using local file</p> <p>responsive grid using bootstrap grid system</p>	Practicals	Microsoft PowerPoint Presentation	<p>1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript</p> <p>2-Tay Vaughan, "Multimedia Making It Work";</p> <p>Mc Graw Hill, Eighth Edition.</p>	
	26/08/24	31/08/24	1	<p>using bootstrap navbar component ,create and style navigation menus</p> <p>bootstrap button classes create and style buttons</p> <p>use bootstrap predefined css classes for typography</p>	Practicals	Microsoft PowerPoint Presentation	<p>1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript</p> <p>2-Tay Vaughan, "Multimedia Making It Work";</p> <p>Mc Graw Hill, Eighth Edition.</p>	
Sept	02/09/24	07/09/24	1	<p>bootstrap form component create forms</p> <p>bootstrap responsive image classes</p>	Practicals	Microsoft PowerPoint Presentation	<p>1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript</p> <p>2-Tay Vaughan, "Multimedia Making It Work";</p> <p>Mc Graw Hill,</p>	

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	09/09/24	14/09/24	1	bootstrap modal dialogs control visibility and alignment using bootstrap responsive utilities	Practicals	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	
	19/09/24	21/09/24	1	Javascript practicals validate users input in form using javascript write javascript function that reverses a string image carousel using javascript	Practicals	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	

	23/09/24	28/09/24	1	largest number in array using javascript detect and handle browser clicks using javascript	Practicals	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript" 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	
Oct	30/09/24	05/10/24	1	factorial of a given number using javascript manipulate css properties of html using javascript	Practicals	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript" 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.	
	07/10/24	12/10/24	1	multimedia image composition create images for paint,web and videos design logo for company design brochure for product	Practicals	Microsoft PowerPoint Presentation	1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript" 2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill,	

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	14/10/24	19/10/24	1	<p>design post with given information</p> <p>Edit sound file and learn about effects</p> <p>record voice and learn audio compression</p> <p>audio mixing and streaming audio</p> <p>video editing</p>	Practicals	Microsoft PowerPoint Presentation	<p>1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript</p> <p>2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.</p>	
	21/10/24	26/10/24	1	<p>prepare video with title</p> <p>record video content</p> <p>prepare video content for youtube</p>	Practicals	Microsoft PowerPoint Presentation	<p>1-Laura Lemay , Rafe Colburn , Jennifer Kyrnin, "Mastering HTML, CSS & JavaScript</p> <p>2-Tay Vaughan, "Multimedia Making It Work"; Mc Graw Hill, Eighth Edition.</p>	

Assessment Rubrics	Component	Max Marks							
	ISA 1	5							
	ISA 2	5							
	ISA 3	NA							
	Practical	50							
	Project	NA							
	SEE	20							