A THE OF TECHNOLOGY		Walan Pala	National Institute of Technology Meghalaya An Institute of National Importance												CURRICULUM		
Programn		e Master of Computer Applications Academic Year of											of Regulation		2024-25		
Depa	artmer	rtment Computer Science and E			d Engine	Engineering				Semester				III			
Course		Course Name Pre-Requisir								Credit Structure Marks Distribu					istributio	n	
Cod	е	Jourse Marie					FIE	F16-Nequisite	L	Т	Р	С	INT	MID	END	Total	
CA57	71	Web Design Using JavaScript							2	0	0	2	50	50	100	200	
										CO's	Statement Able to understand HTML docum			nents with	Bloom	s Taxonomy	
		_	_	sp of funda es, operato		-	-	_		CA571.1	JavaScript to prepare interactive 1 that respond to user actions thro handling, DOM manipulation, an content generation.		web pages ough event od dynamic	Apply			
Course Objective		To enhance HTML documents with JavaScript to create dynamic and interactive web pages, utilizing events, methods, and DOM manipulation effectively.									Able to design JavaScript code, applyi fundamental concepts such as variabl functions, loops, and conditional statements to solve programming challenges.			ariables, I	Create		
	ives	formatt	ing, and dy	script form mamic calc iendly web	ulations us	•			Course Outcomes	CA571.3	1.3 Able to develop the ability to script web forms using JavaScript to perform client-side validation, automate data formattin calculate values dynamically, and enhan user experience with responsive form behavior.			n client- ormatting, d enhance	Create		
	To master techniques to dynamically change web page content based on time, date, user interactions, or external data sources, leveraging arrays, objects, and external file access for richer user experiences.							ces,		CA571.4	1.4 Able to dynamically modify web page content based on time, user interactions, or external data sources, utilizing arrays, objects, and external file access to create engaging and responsive web applications.			Create			
00						Mapping	g with Pro	gram Out	comes (POs	5)			·		Mapping with PSOs		
COs	S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CA57	1.1				1	2				1			1	1		1	
CA57		1	1		1	1											
CA57′		2	2	3	2	3							2	2	2	1	
CA57′		3	2	3	2	3							2	2	2	1	
CA57	71	2.00	1.67	3.00	1.50	2.25			// AB::6	1.00			1.67	1.67	2.00	1.00	
NI-							0-10		LLABUS					Harrina		00-	
No.		Content Hour 6							6	COs CA571.1							
I		Introduction: Introduction to Objects, Methods, and Events, Events and Program Flow, Running Scripts. Script Writing Basics: Enhancing HTML Documents with JavaScript, The Quintessential Building Blocks, Script Mechanics															
II	Using Methods, Operators and Variables, Keywords, Functions, Object interaction. Control, Looping and functions: Controlling Script Flow, Storing Tasks within Functions, Using Conditional Statements for Decision Making, if Statements, if-else Conditional Statements, Using the Date Object, for Conditional Statements, while Conditional Statements, break and continue Statements, with Statements, Creating Functions in JavaScript, declaring a Function, Designing a							A571.2									
III	Simple Function. Creating Dynamic web page: Changing Pages Based on Time and Date, Displaying the Quote of the Day, Using Arrays, Constructing the Quotes Script, Considerations When Accessing External Files, Changing the Background Color through a Random Number, Turning the Color Generator into a Function, Using the Image and Area Objects, Creating an Image Object, Creating an Area Object, Selecting a Guide.								CA571.3, CA571.4								
IV	Java S	Scripting	Your Forr		•		_		Objects, Orga g, Format Pho	_	•	•		6		A571.3, A571.4	

Essential Readings

1. Laurence Lars Svekis, Maaike van Putten, Rob Percival, "JavaScript from Beginner to Professional", Packt Publishing, 2021

Total Hours

28

- 2. David Flanagan, "JavaScript: The Definitive Guide", 7th Edition, O'Reilly Media, 2020
- 3. Fritz Schneider, Thomas Powell, "JavaScript: The Complete Reference", 3rd Edition, Tata McGraw Hill Education, 2012
- 4. David Flanagan, "JavaScript: Pocket Reference", 3rd Edition, O'Reilly, 2012

Calculate Expiration Date, Calculate Amount

Supplementary Readings

- 1. Danny Goodman Michael Morrison Paul Novitski Tia GustaffRayl, "Javascript Bible", 7th Edition, Wiley India Pvt Ltd, 2010
- 2. Douglas Crockford, "JavaScript: The Good Parts", 2nd Edition, Tata McGraw Hill Education, 2008

3. Ivan Bayross, "Web Enabled Con	mmercial Application Development Using I	HTML, JavaScript, DHTML (With CD) ar	nd PHP", 4th Edition, BPB Publicati	on, 2010