COURSE PLAN

Data Science and Computer Applications

Course Name & code : Web Technologies Lab & MCA 4143

Semester & branch : I & MCA

Name of the faculty : Mr. Akshay Bhat, Mr. Tojo Thomas

No of contact hours/week:

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Course Outcomes (COs)

		No. of		
	At the end of this course, the student should be able to:	Contact	Marks	
		Hours		
CO1:	Create structured web pages using HTML	9	25	
CO2:	Design and implement responsive front-end interfaces using CSS	9	35	
CO3:	Develop interactive web pages using client-side scripting techniques	6	10	
CO4:	Construct data-driven web applications using server-side technologies	9	30	
CO5:	Click or tap here to enter text.	Hrs.	Marks	
	Total	33	100	

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Assessment Plan

1. Continuous Evaluation 60%

Mid-term test : Max. Marks: 20 (6th Lab)

Regular Evaluation : Evaluation for 20 marks (5th Lab)

Record 6 marks

Execution check 7 marks

Quiz 7 marks

Group Project : Report 10 marks, Individual contribution 10 marks (10th Lab)

2. Lab Examination 40%

• Examination of 3 hours duration (Max. Marks: 40)

Lesson Plan

L. No.	Topics	Course Outcome Addressed
L1	Introduction to HTML and Review of HTML formatting commands.	CO1
L2	Structured web page using HTML:	CO1
	 Write a HTML document to display your class Time Table using tables. Write a HTML document to display your resume in a neat format. 	
L3	HTML hyperlinks:	
	3. Create a HTML document to display the details of "W3C". The initial section of the page should brief on "About W3C". This should be followed by the table of content as hyperlink, referring to the respective section in the same page. Also link to the "SirTimberners.html" to get in more insight about Sir. Tim Berners Lee.	
L4	HTML Form:	CO2
	4. Create a web form to depict the given Passport application for by Ministry of External Affairs, Govt. of India.	
L5	Responsive web design:	CO2
	 5. Create the following web pages for your photo magazine website: a. Create a home page with header, navigation bar (horizontal and vertical), content section, aside to display contact details and a footer. b. From the home user should be able to navigate to the photo gallery page. The photo gallery page must exhibit responsive features for larger device visual (width: 992px and above), medium range devices (width ranging from 768px to 991) and for lower range device (width: 767 and below) 	
L6	CSS animation:	CO2
	6. Create a HTML document to depict a lunar eclipse using CSS animation 7. Implement a HTML document to display a newton's cradle using CSS animation.	
L7	Basic JavaScript Interactivity:	CO3
	8. Create a web page demonstrating JavaScript boxes (alert, confirm, prompt).	

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	9. Implement JavaScript to create a new browser window with custom text.		
1.0	10. Develop a JavaScript-driven dropdown menu linking multiple pages.	602	
L8	Advanced JavaScript Techniques:	CO3	
	11. Create a web page with content on cookies which stores the name of the user,		
	date of last access in a cookie. On load of the web page display a welcome		
	message.		
	12. Design a page to store and display user information using cookies.		
	13. Implement a digital clock using JavaScript timeout events.		
	14. Create a canvas-based application for freehand drawing and displaying mouse		
	coordinates.		
L9	Form Validation:	CO4	
	15. Create a step-by-step wizard to get the following user details for the "Best		
	JOBs" website:		
	Step 1: Account Set-Up details such as User Name, Password, Confirm Password.		
	Step 2: Personal details such as First Name, Last Name, Gender, Nationality,		
	DoB. Step 3: Contact details such as E-mail, Phone, Address.		
	Step 3. Contact details such as E-man, Phone, Address. Step 4: Social Profiles details such as Twitter, Facebook, Google.		
	Step 5: Academic details such as UG CGPA, PG CGPA, three project title with		
	its abstract.		
	Step 6: Confirmation registration must display the entered details in the previous		
	steps.		
	Step 7: To display registration successful message.		
	Also apply the necessary validations to the user data fields.		
L10	Server-Side Scripting with PHP:	CO4	
	16. Develop a PHP page to upload resumes in PDF format.		
	17. Create a PHP page to store and display the last visit date-time using cookies.		
	18. Implement a session-based page views counter.		
	19. Read and display employee details from a JSON file using PHP.		
	20. Develop a PHP-based web application that allows users to search for employee		
	details and display the results asynchronously using AJAX.		
L11	CRUD application using PHP and MySQL	CO4	
	21. Using PHP and MySQL, develop a CRUD web application to accept book		
	information such as accession number, title, authors, edition and publisher from		
	a web page and create/update/delete the information in a database.		
L12	Click or tap here to enter text.	СО	
L13	Click or tap here to enter text.	СО	
L14	Click or tap here to enter text.	СО	

References:

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	Date:	02-07-20)24			
	Approv	ved by:	Dr. Radhika M Pa	i		
	(Signatı	ure of HO	DD)			
	Date: 02-07-2024					
	FACULT	ГҮ МЕМВ	ERS TEACHING T	HE COURSE (IF MU	LTIPLE SECTIONS EXIS	ST):
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