



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

COURSE PLAN

Department	:	Computer Applications			
Course Name & code	:	Web Technologies Lab & MCA 4263			
Semester & branch	:	II & MCA			
Name of the faculty	:	Akshay Bhat			
No of contact hours/week:		L	T	P	C
		Lecture(L)	Tutorial(T)	3	1

Course Outcomes (COs)

At the end of this course, the student should be able to:		No. of Contact Hours	Marks
CO1:	Implement html to create web pages	Hrs.	Marks
CO2:	Demonstrate usage of CSS in front-end designing	Hrs.	Marks
CO3:	Apply client-side techniques for user interactivity with the web page	Hrs.	Marks
CO4:	Develop data driven application for wide range of real time problems	Hrs.	Marks
CO5:	Click or tap here to enter text.	Hrs.	Marks
Total			

Assessment Plan

1. Continuous Evaluation	60%
Lab test	: Two tests of 10 marks each (Max. Marks: 20)
Regular Evaluation	: Two evaluation of 10 marks each (Max. Marks: 20)
Viva-Voce	: Two Viva-Voce 10 marks each (Max. Marks: 20)
2. Lab Examination	40%
<ul style="list-style-type: none"> 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	1. Write a HTML document to display your class Time Table using tables. 2. Write a HTML document to display your resume in a neat format. 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.	CO1
L3	4. Create a web form to depict the given Passport application for by Ministry of External Affairs , Govt. of India.	CO1
L4	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)	CO2
L5	6. Write a HTML document to depict a lunar eclipse using CSS animation 7. Write a HTML document to display an animated solar system using CSS. 8. Write a HTML document to display a newton’s cradle using CSS animation.	CO2
L6	9. Create a web page with the content about various boxes supported in JavaScript. 10. Write a JavaScript to create a new browser window and display some text in that window. Put the script into a suitable HTML page and test it. 11. Write a JavaScript which will link all the JavaScript programs through a drop down menu.	CO3
L7	12. 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. 13. Write a web page which displays a digital clock, using the JavaScript timeout event. 14. Write a web page to display mouse co-ordinates on mouse move over the canvas. 15. Write a web page document for free hand drawing using Canvas	CO3
L8	16. 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	CO2, CO3

	<p>Password.</p> <p>Step 2: Personal details such as First Name, Last Name, Gender, Nationality, DoB.</p> <p>Step 3: Contact details such as E-mail, Phone, Address.</p> <p>Step 4: Social Profiles details such as Twitter, Facebook, Google.</p> <p>Step 5: Academic details such as UG CGPA, PG CGPA, three project title with its abstract.</p> <p>Step 6: Confirmation registration must display the entered details in the previous steps.</p> <p>Step 7: To display registration successful message.</p> <p>Also apply the necessary validations to the user data fields.</p>	
L9	<p>17. Write a PHP page to upload user resume in pdf format to the website.</p> <p>18. Write a PHP page to store current date-time in a COOKIE and display the 'Last visited on' date-time on the web page upon reopening of the same page.</p> <p>19. Write a PHP page to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.</p> <p>20. Write a PHP page to read the employee details in a JSON format and display it in a tabular format.</p> <p>21. Write a PHP page to search an employee detail and display it by sending an asynchronous request to the server.</p>	CO4
L10	<p>22. 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.</p> <p>23. For the previously coded "Best JOBS" wizard form, implement the server-side validation using PHP. Also submit the validated data to server database.</p>	CO4
L11	<p>24. Introduction to Angular work environment.</p> <p>25. Write a script to display the total of ASCII characters for the text content entered in a textbox using Angular</p>	CO4
L12	Click or tap here to enter text.	CO
L13	Click or tap here to enter text.	CO
L14	Click or tap here to enter text.	CO

References:

1.	1. Randy Connolly, Ricardo Hoar, Fundamentals of Web Development, 1st Edition, Pearson Education India, 2015.
2.	2. Luke Welling, Laura Thomson, PHP and MySQL Web Development, 5th Edition, Pearson Education, 2016.
3.	3. Nicholas C Zakas, "Professional JavaScript for Web Developers", 3rd Edition, Wrox/Wiley India, 2012.
4.	4. John Kocer, "Angular 7: By Example (Part One Book 1)", 2019.
5.	Click or tap here to enter text.

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Submitted by: Akshay Bhat

(Signature of the faculty)

Date: Click or tap to enter a date.

Approved by: Click or tap here to enter text.

(Signature of HOD)

Date: Click or tap to enter a date.

FACULTY MEMBERS TEACHING THE COURSE (IF MULTIPLE SECTIONS EXIST):

FACULTY	SECTION	FACULTY	SECTION
