

NIRMA UNIVERSITY

Institute:	Institute of Technology
Name of Programme:	Integrated B.Tech.(CSE)-MBA
Course Code:	CS10705
Course Title:	Web Technologies
Course Type:	Core
Year of Introduction:	2021-22

Credit Scheme

L	T	Practical Component				C
		LPW	PW	W	S	
2	0	4	-	-	-	4

Course Learning Outcomes (CLO):

At the end of the course, students will be able to –

1. interpret the basic structure of web designing technologies
2. apply the concepts of web technologies in designing static and dynamic web pages
3. design interactive web pages incorporating validation techniques

Syllabus:

Total Teaching hours: 20

Unit	Syllabus	Teaching hours
Unit-I	Introduction to various HTML tags: Introduction to HTML, HTML Documents, HTML Structure tags, HTML Block level tags, HTML Text level tags, Different types of Lists, Nesting of lists, Linking HTML Documents, Frames, tables and forms.	07
Unit-II	Cascaded Style Sheets: What are style sheets, importance of CSS, Different approaches to style sheets, Using Multiple approaches, linking to style information in separate file, setting up style information using inline, internal and external style sheet.	06
Unit-III	JavaScript: Introduction to JavaScript, JavaScript syntax, variables and their types, JavaScript operators, arrays and array methods, Control statements, built - in objects in JavaScript, Array, String, Math, Date objects, validation using JavaScript.	07

Self-Study: The self-study contents will be declared at the commencement of semester. Around 10% of the questions will be asked from self-study contents

- Suggested Readings/References:**
1. Harvey M. Deitel, Paul J. Deitel, Tem R. Nieto, Internet and World Wide Web: How to Program, Pearson
 2. Scott Parker, Paperback, The Web Designer's 101 Most Important Decisions Professional Secrets for a Winning Website
 3. Html5 Black Book: Covers Css3, Javascript, Xml, Xhtml, Ajax, Php and JQuery, Kogent Learning Solutions Inc. (Dreamtech Press).
 4. Jon Duckett, Beginning Web Programming with Html, XHTML and CSS, Wiley

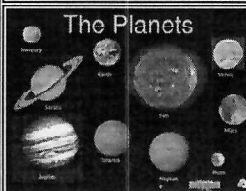


Suggested List of Experiments: **Sr. No.** **Title** **Hours**

- 1 A. ~~Design a home page which will display your information i.e., resume.~~
 B. Demonstrate various list types using appropriate example 04
- 2 A. Create a HTML page which contains the two frames using frameset tag. First frame contains the details about chapters and second frame contains navigation
 Chapter 1. CSS tutorials it
 This chapter explains er
 1.1 CSS Tutorial
 This subsection explains 04
 1.2 CSS3 Tutorial
 This subsection explains

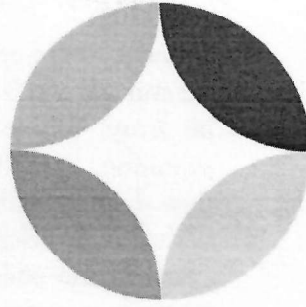
- B. Demonstrate an image map using map of India in HTML. Once we click on specific state, it will open another page with state image.
- 3 Design a web page for the following:
 A. Design the table as given below:

Caption: Table Example

Header-1		RIGHT CORNER OF TABLE			
Header-2		Header-3			
1. Lists can be table data 2. Images can be table data	Two columns merged				
	Two Tall	Data here	Caption: Nested Table <table border="1" style="margin: auto;"> <tr><td style="text-align: center;">Header</td></tr> <tr><td style="text-align: center;">Cell data</td></tr> </table>	Header	Cell data
Header					
Cell data					
Table Footer					

04

- B. Create a registration form of your choice. Use appropriate form tags.
- 4 Design the web pages that demonstrate following concepts: 04
 A. Font properties
 B. Background properties
 C. Box shadow, Margin, Padding and Outline properties.
- 5 Create the web pages that demonstrate following concepts: 04
 A) Demonstrate various border styles on HTML elements.
 B) Write a code on four div elements as shown in below given figure:



- 6 Create the web pages that demonstrate following concepts:
- A) Develop HTML code that displays horizontal navigation menu bar using unordered list.
 - B) Demonstrate Table and Column properties. Refer the following figure as sample:

Book Auctions

04

AUTHOR	TITLE	RESERVE PRICE	CURRENT BID
Herbert Schildt	MFC Programming from the GROUND UP	₹ 525.00	₹ 600.00
Julia and Anitha	Programming in Visual Basic .Net		₹ 700.00
B.M. Harwani	Android Programming UNLEASHED	₹ 789.00	₹ 910.00
Cay and Gary	Core Java		₹ 625.00

- 7
- A. Write a JavaScript that takes an integer value and display the number with its digits in reversed order.
 - B. Write a JavaScript that read a set of N single digits and convert them into single decimal integer. For example, the script should convert the set of 4 digits {9,3,1,6} to decimal integer 9316.
- 8
- A. Write a JavaScript code to display the denomination of the amount deposited in the bank in terms of 100's, 50's, 20's, 10's, 5's, 2's and 1's. (Eg: If deposited amount is Rs.163, the output should be 1-100's, 1-50's, 1- 10's, 1-2's & 1-1's).

04

- B. Design the web page which have simple guessing number game. Write a JavaScript function which generate random number in between 1 to 200. Give user 5 attempts to guess the random number. If user guess it correctly then change the background color of web page to yellow and if user fail to guess the number after the 5 attempts than change the background color of web page to orange.

04

- 9 A. Write a JavaScript function that obtain a list of person names from the user, store each name in an array. When user enters “END”, it terminates scanning. Sort the name into ascending order and then display each name in new line on web page. 04
- B. Write a JavaScript to display the current date, current time and display the appropriate greeting message according to time slot (e.g. : Morning, 20/05/2019 08:00:00 AM)
- 10 Design the web page to demonstrate the validation of following fields. Write a JavaScript to validate each field as per its valid format and given validation criteria. 04
- i) IP address
 - ii) Alphanumeric values only
 - iii) Date in DD/MM/YYYY format
 - iv) Special symbol restriction
 - v) Email must be in proper form.
 - vi) Phone number should be minimum of 10 digits
 - vii) Required field validation
 - viii) Password and retype password must be same

Suggested
Case List:

-NA-