BNM Institute of Technology Dept. of Computer Science and Engineering

Dept. of Computer Science and Engineering
Choice Based Credit System (CBCS and Outcome Based Education (OBE)

Semester: IV						
Course Name: Web Technology and its Applications Course Code: 22CSE146						
L: T: P: J	0: 0: 2: 2	CIA Marks: 50				
Credits:	2	SEA Marks: 50				
Hours/Week (Total)	4 (30)	SEA Duration: 03 Hours				
Pre-Requisites: Fundamentals of Programming and Networking						
Course Learning Objective	es: The students will be able to					
	tion development procedures					
2 To impart servlet technology	ology for writing business logic					
	asics of server-side scripting using PHP					
4 To facilitate students to	connect to databases using JDBC					
Module-1:		No. of	BLL with CO			
		Hours	mapping			
Introduction to HTML : The development process, Html tags and simple HTML forms, web site structure Introduction to XHTML: XML, Move to XHTML, Meta tags, Character entities, frames and frame sets.			1 Understand			
Module-2:						
Style sheets : Need for CSS, introduction to CSS, basic syntax and structure, using CSS, background images, colors and properties, manipulating texts, using fonts, borders and boxes, margins, padding lists, positioning using CSS, CSS2.			2 Understand			
Module-3:	'.' 1 .' T C '. 1 . 1 1					
JavaScript: Client-side scripting, what is JavaScript, how to develop JavaScript, simple JavaScript, variables, functions, conditions, loops and repetition DHTML: Combining HTML, CSS and JavaScript, events and buttons, controlling your browser			3 Apply			
Module-4:		-				
XML: Introduction to XM components, DTD and S application.XML, XSL a transformed simple example	6	4 Apply				
Module-5:						
PHP: Introduction and basic syntax of PHP, decision and looping with examples, PHP and HTML, Arrays, Functions, Browser control and detection, string, Form processing, Files, Advance Features: Cookies and Sessions. Databases: Basic command with PHP examples, Connection to server, creating database, selecting a database, listing database, listing table names creating a table, inserting data, altering tables, queries, deleting database deleting data and tables			5 Create			

Handson Practice sets				
Practical Set -1 HTML				
✓	Design web pages for your college containing a description of the courses, departments,			
	faculties, library etc, use href, list tags.			
✓	Create your class timetable using table tag.			
✓	Create user Student feedback form			
	(Use textbox, text area, checkbox, radio button, select box etc.)			

✓	Create your resume using HTML tags also experiment with colors, text, link, size and also other				
	tags you studied.				
<u>√</u>	At the bottom create a link to take user to the top of the page				
	tical Set -2 CSS				
✓	Design a web page of your home town with an attractive background color, text color, an Image, font etc. (use internal CSS).				
✓	Use Inline CSS to format your resume that you created.				
✓	Use External CSS to format your class timetable as you created.				
✓	Use External, Internal, and Inline CSS to format college web page that you created.				
Prac	tical Set -3 JavaScript				
✓	Develop a JavaScript to display today's date.				
✓	Develop simple calculator for addition, subtraction, multiplication and division				
	operation using JavaScript				
✓	Create HTML Page with JavaScript which takes Integer number as input and				
	tells whether the number is ODD or EVEN.				
\checkmark	Create HTML Page that contains form with fields Name, Email, Mobile No, Gender, Favorite Color				
	and a button now write a JavaScript code to combine and display the information in textbox when the				
	button is clicked.				
✓	Implement Validation in above Feedback Form.				
✓	Use regular expression for validation in Feedback Form.				
✓	Write a JavaScript program to change background color after 5 seconds of page load.				
Prac	tical Set -4 XML				
✓	Create XML file to store student information like Enrollment Number, Name, Mobile Number, Email Id.				
Prac	tical Set -5 PHP				
√	Write a php program to display today's date in dd-mm-yyyy format.				
✓	Write a php program to check if number is prime or not.				
✓	Create HTML page that contain textbox, submit / reset button. Write php program to				
	display this information and also store into text file.				
✓	Write a PHP Script for login authentication. Design an html form which takes				
	username and password from user and validate against stored username and password in file.				
✓	Write PHP Script for storing and retrieving user information from MySql table.				
	1. Design A HTML page which takes Name, Address, Email and Mobile No. From user				
	(register.php)				
	2. Store this data in Mysql database / text file.				
	3. Next page display all user in html table using PHP (display.php)				
v	Write a PHP script for user authentication using PHP-MYSQL. Use session for storing username.				
Mini	Project: Website				

Mini Project: Website
Students have to create a website which contains above topics in Website.

Course Outcomes: After completing the course, the students will be able to				
22CSE146.1	Understand the HTML tags and use them to develop the user-friendly web pages.			
22CSE146 .2	Understand the CSS with its types and use them to provide the styles to the web pages at various levels			
	various levels			
22CSE146.3	Develop the dynamic web pages by using the JavaScript			
21CSE146 .4	Build the web pages dynamically using the database connectivity and applying server-side			
	scrinting with XIVII. and PHP			
21CSE146 .5	Create the modern Web applications using the client and server-side technologies and the web			
	design fundamentals.			

Reference Books

- Developing Web Applications, Ralph Moseley and M. T. Savaliya, Wiley-India
- Web Technologies, Black Book, dreamtech Press
- HTML 5, Black Book, dreamtech Press
- Developing Web Applications in PHP and AJAX, Harwani, McGrawHil

Marks Distribution for Assessment:

CIA (50)	Component	Description	Marks
, ,	Written Test	Total Number of Test: 2 Each Theory test will be conducted for 30 marks Average of 2 tests = 30 Marks	30
	Practical	Weekly Assessment (Record / Project) Lab IA Test	10 10
Total Marks		50	
SEA (50)	Component	Description	Marks
	Project	Write up – 10 marks Project Report – 25 marks Presentation and demonstration – 50 marks Viva – voce – 15 marks	100 marks reduced to 50 marks
		Total marks for the Course	100