Bachelor of Business Administration
B.B.A (ITM) Semester-IV

Course Code	UM04CBBI73	Title of the Course	Front End Programming
Total Credits of the Course	03	Hours per Week	06

Course Objectives:	1. Introduction to scripting language 2. Familiarity with different Data types, Control statements, looping structures & Functions in JavaScript. 3. How the user input in web page can be validated at client-side.

Course Content		
Unit	Description	Weightage*(%)
1.	Introduction to Scripting – Client Side Scripting vs. Server Side Scripting –How the Web works - Introduction to JavaScript – Applications and advantages of JavaScript - Using JavaScript on a webpage.	25%
2.	JavaScript basics – Syntax, Data Types, Variables, Literals, Type Casting, Operators, User interaction through dialog boxes [Prompt, alert, confirm]	25%
3.	Flow Control statements: Decision-Making and Looping – Arrays - User-defined functions , Built-in functions [isNaN(), parseInt(), parseFloat()]	25%
4.	Introduction to DOM - DOM hierarchy - HTML Form Hierarchy – Accessing Form elements (Text, Radio, Checkbox, Dropdown, Button) - String Object (length, charAt, indexOf, substr, toLowerCase, toUpperCase), Math Object (PI, abs, ceil, floor, max, min, round), Date Object (getDate, getDay, getFullYear, getMonth, getTime, getHours, getMinutes, getSeconds, setDate, setFullYear, setMonth, setTime, setHours, setMinutes, setSeconds)	25%

Teaching-Learning Methodology	E-Learning consist of teaching can be based in or out of the Classrooms, the use of computers and the Internet. E-learning definition is defined as providing Training and development to the Students/Employees through various Electronic media such as the Internet, audio, video etc.

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / MCQ (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quiz, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learnerwill be able to	
1.	To develop a dynamic web pages.
2.	Understand concepts commonly used in dynamic language programming
3.	Develop familiarity with the JavaScript language.
4.	Become adept at implementing client-side interfaces through the use of the DOM
5.	Become familiar with common libraries that are used in web application development.
6.	JavaScript can make custom UI (user interface).
7.	Summarize flow control

Suggested References:	
Sr. No.	References
1.	Ivan Bayross, "Web Enabled Commercial Applications Development using HTML, DHTML, Javascript, Perl CGI", BPB, 2004.

2.	Douglas E Comer: The Internet, PHI, Second Edition, May 2000.
3.	Wilton P., Jeremy McPeak: Beginning JavaScript, 4th Ed., Wiley Pub.
4.	Danny Goodman, Machael Morrison: "JavaScript Bible", 6th Ed., Wiley Pub.

On-lineresources to be used if available as references material:
On-line resources:
https://www.w3schools.com/js/
https://www.tutorialspoint.com/javascript/index.htm
https://www.javatpoint.com/javascript-tutorial

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