

**SES's L. S. RAHEJA COLLEGE OF ARTS AND COMMERCE
(AUTONOMOUS)**



**Syllabus of Web Designing with JavaScript under NEP 2020 vertical -
SEC with effect from 2024-25**

Department of Information Technology and Data Science

HoD/Sr. Person of the Department: Prajakta Joshi

Date of approval by the BoS: 27/04/2024

Approved by the Academic Council: 29/04/2024

Ratified by the Governing Body on: 06/05/2024



Programme: B.Sc.(IT)			Semester : II		
Course: Web Designing with JavaScript			Code: UGBSCITIISEC124		
Academic Year: 2024-2025			Batch: 2024-2027		
Teaching Scheme			Evaluation Scheme		
Lectures	Practical	Tutorials	Credits	Internal Continuous Assessment (ICA) (weightage)	Term End Examinations (TEE) (weightage)
30	Nil	Nil	2	20	30

Learning Objectives :	<ol style="list-style-type: none"> Design interactive webpages using client-side script (JavaScript). To study and implement various JavaScript Document Object Model. To study events in web pages using JavaScript.
Learning Outcomes :	<ol style="list-style-type: none"> To implement basic and complex functionalities of JavaScript in a web page. To implement JavaScript Document object. To implement event handling in a web page.
Pedagogy:	Experiential learning, logic building, designing, practical implementation

Detailed Syllabus: (per session plan)

Session Outline For: Web Designing with JavaScript

Each lecture session would be of one hour duration (30 sessions).

Module	Module Content	Module Wise Pedagogy Used	Module Wise Duration
I	<p>JavaScript: Introduction, Difference between Client-side and Server-side Scripting, JavaScript Variables and Constants, Data Types, Statements, Comments, Functions, Variable Scope, Hoisting, Strict Mode, JavaScript Objects, Dialog Boxes, void Keyword</p> <p>Operators: Arithmetic Operators, Assignment Operators, Comparison Operators, Logical Operators, Bitwise Operators</p> <p>JavaScript Objects: User-defined Objects, with Keyword, Native Objects – Array, String, Date, Math, Number, RegExp</p> <p>DOM: Introduction, DOM Properties and Methods.</p>	Experiential learning, logic building, designing, practical implementation	15
II	Browser BOM: Moving back and forward with History, Cookies	Experiential learning,	

	Events and Event Handlers: HTML Events, DOM Events, DOM Event Listener, onAbort, onBlur, onChange, onClick, onDblClick, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onReset, onResize, onSelect, onSubmit, onUnload jQuery: Introduction, Syntax, Selectors, Event Methods, Effects - Hide and Show, Fading, Sliding, Animation, Stop Animations, Callback Functions, Get and Set Content and Attributes, Add and remove Elements, Get and Set CSS Classes, css() methods.	logic building, designing, practical implementation	15
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REFERENCE BOOKS

1. Thomas A. Powell & Fritz Schneider, The Complete Reference JavaScript, McGrawHill
2. Robin Nixon, Learning PHP, MySQL, JavaScript, CSS & HTML5, O'Reilly
3. Jennifer Niederst Robbins, Learning Web Design A Beginner's Guide to Html, CSS, JavaScript, And Web Graphics, O'Reilly
4. John Pollock, jQuery: A Beginner's Guide, McGrawHill