



(Shri Ramkrishna Seva Mandal's)  
**ANAND COMMERCE COLLEGE**

An Autonomous College (2025-26 to 2034-35)  
(Affiliated to Sardar Patel University)  
NAAC ACCREDITED "A" GRADE (3.04 CGPA)  
ISO 9001:2015



Syllabus As Per NEP 2020 With Effect From the Academic Year 2025-2026

**Bachelor of Computer Applications**  
**BCA Semester – II**

<b>Course Code</b>	UCA02MIBCA03	<b>Title of the Course</b>	Frontend Web Development -II
<b>Total Credits of the Course</b>	2	<b>Hours per Week</b>	2

<b>Course Objectives</b>	<ol style="list-style-type: none"><li>1. To understand the fundamentals of scripting, differentiate between client-side and server-side scripting, and explore the role of JavaScript in web development.</li><li>2. To learn the basic syntax, data types, control structures, and functions of JavaScript for developing interactive web applications.</li><li>3. To apply built-in JavaScript objects like String, Math, and Date to perform advanced operations.</li><li>4. To introduce jQuery for enhancing web interactivity using selectors, events, effects, and animations efficiently.</li></ol>
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<b>Course Content</b>		
<b>Unit</b>	<b>Description</b>	<b>Weightage* (%)</b>
1.	<b>Introduction to Scripting</b> 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	<b>35%</b> <b>11 Hr.</b>
2.	<b>JavaScript basics:</b> Syntax, Data Types, Variables, Literals, Type Casting, Operators, User interaction through dialog boxes, Built-in functions, Flow Control statements: Decision-Making and Looping, Arrays, User-defined functions, <b>Advanced JavaScript-II</b> String Object (length, charAt, indexOf, substr, toLowerCase, toUpperCase), Math Object (PI, abs, ceil, floor, max, mm, round), Date Object (getDate, getDay, getFullYear, getMonth, getTime, getHours, getMinutes, getSeconds, setDate, setFullYear, setMonth, setTime, setHours, setMinutes, setSeconds)	<b>35%</b> <b>11 Hr.</b>

3.	<p><b>jQuery: Introduction and Setup</b> Introduction jQuery, Features and advantages, jQuery vs JavaScript, Including jQuery in HTML (CDN &amp; local), jQuery syntax and structure, \$(document).ready() function</p> <p><b>Selectors and Events</b> jQuery selectors (\$(), element, class, ID selectors), jQuery event handling, click (), hover (), on (), Event chaining basics</p> <p><b>Effects and Animations</b> jQuery effects, hide (), show (), toggle(), fadeIn(), fadeOut() ,slideUp(), slideDown(), Basic animations, Chaining methods</p>	<p><b>30%</b> <b>08 Hr.</b></p>
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<b>Teaching-Learning Methodology</b>	Blended learning approach incorporating both traditional classrooms teaching as well as usage of ICT tools.
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<b>Course Outcomes:</b> Having Completed This Course, The Learner Will Be Able To	
CO1	To Understand Scripting Fundamentals, Client-Side Vs. Server-Side Scripting, How the Web Works, And JavaScript’s Role and Advantages in Web Development.
CO2	To Build Core JavaScript Skills Including Syntax, Data Types, Variables, Operators, Control Structures, Arrays, Functions, And Built-In Objects Like String, Math, And Date.
CO3	To Learn jQuery Fundamentals Including Setup, Syntax, Selectors, Event Handling, Effects, Animations, And How It Enhances Interactivity Over Plain JavaScript.

<b>Suggested References</b>	
<b>Sr.No.</b>	<b>References</b>
1.	Douglas E Comer, The Internet, PHI, Second Edition, May 2000.
2.	Ivan Bayross, “Web Enabled Commercial Applications Development using HTML, DHTML, Javascript, Perl CGI”, BPB, 2004.
3..	Eric Meyer, Cascading Style Sheets – The Definitive Guide, O’Reilly – SPD, First Edition, 2000.
4.	"Learning jQuery" by Jonathan Chaffer and Karl Swedberg
<b>Digital resources to be used if available as reference material</b>	
<b>Digital Resources</b>	
<a href="https://www.w3schools.com/">https://www.w3schools.com/</a>	
<a href="https://developer.mozilla.org/">https://developer.mozilla.org/</a>	

  
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