



C P PATEL AND F H SHAH COMMERCE COLLEGE, ANAND
(AUTONOMOUS)

(Managed by Sardar Patel Education Trust, Anand)
(Affiliated to Sardar Patel University, Vallabh Vidyanagar)
NAAC Reaccredited CGPA – 3.30 – Grade A+



Revised Syllabus as per NEP 2020 with effect from the Academic Year 2026-2027

Bachelor of Computer Applications (BCA)

Semester – II

Course Code	US2MDBCA14	Title of the Course	Practical Based On Advanced Web Application with JQuery
Total Credits	02 Credits	Hours per Week	02 Hours / Week

Course Learning Outcomes (CLOs)

CLO 1	Implement basic JavaScript programs using syntax, variables, and control structures
CLO 2	Develop interactive web pages using DOM manipulation and event handling and JQuery

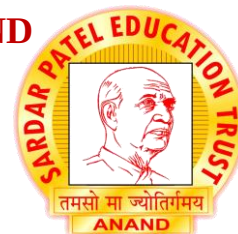
Course Content

Unit No.	Description	Weightage (%)
1.	Introduction to Scripting • Introduction to Scripting • Client Side Scripting vs. Server Side Scripting • Introduction to JavaScript • Applications and Advantages of JavaScript • JavaScript basics: Syntax, Data Types, Variables, Literals, Type Casting, Operators • User interaction through dialog boxes • Built-in functions • Flow Control statements • Arrays	50%
2.	Advanced JavaScript with JQuery • User-defined functions, 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) • Introduction to DOM • DOM Hierarchy, Understanding objects & Collections in DOM, HTML Form Hierarchy • Accessing Form elements (Text, Radio, Checkbox, Dropdown, Button), Event handling • Introduction to JQuery.	50%



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Teaching – Learning Methodology

Material for this course will be presented using multiple teaching approaches: lab work and discussion, exploration and inquiry, cooperative group work, demonstrations, and presentations.

Examination Evaluation Pattern

Sr. No.	Particulars	Weightage (%)
01	Continuous and Comprehensive Evaluation (CCE) (Formative Assessment)	50%
02	Semester End Evaluation (SEE) (Summative Assessment)	50%
	TOTAL	100%

Specifications for CCE and SEE

Sr. No.	Details of the Evaluation Pattern	Marks
01	Continuous and Comprehensive Evaluation (CCE) (Formative Assessment)	25
	Practical Hands-on Evaluation	
02	Semester End Evaluation (SEE) (Summative Assessment)	25
	Practical Examination (02 Hours)	
	TOTAL(For 02 Credit Courses)	50 Marks

Rubrics – Based Assessment for Mid-Semester Examination (25 Marks)

Any One Unit or 50% of The Syllabus - 11 Marks Each Question with 3 Marks Journal

Excellent	09 – 11 Marks	Program executes correctly; proper use of JavaScript/jQuery, DOM, and events; clean, well-structured code; correct output
Good	07 – 09 Marks	Minor syntax or logical errors; mostly correct implementation and output
Average	05 – 07 Marks	Basic implementation; some errors in logic or output
Basic	03 – 05 Marks	Incomplete program; limited understanding of concepts
Poor	01 – 03 Marks	Incorrect logic; program not working properly
Below Poor	Zero Marks / NA	Not attempted or irrelevant program

Note:

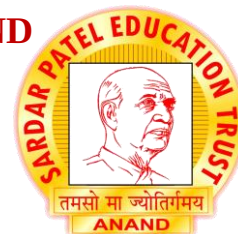
- Written Examination questions will be based on various levels of Revised Bloom's Taxonomy.



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Rubrics – Based Assessment for End-Semester Examination (25 Marks)		
All Units of The Syllabus - 11 Marks Each Question with 3 Marks Journal		
Excellent	09 – 11 Marks	Program executes correctly; proper use of JavaScript/jQuery, DOM, and events; clean, well-structured code; correct output
Good	07 – 09 Marks	Minor syntax or logical errors; mostly correct implementation and output
Average	05 – 07 Marks	Basic implementation; some errors in logic or output
Basic	03 – 05 Marks	Incomplete program; limited understanding of concepts
Poor	01 – 03 Marks	Incorrect logic; program not working properly
Below Poor	Zero Marks / NA	Not attempted or irrelevant program
Note: Written Examination questions will be based on various levels of Revised Bloom's Taxonomy.		

PLO – CLO Mapping						
Practical Based On Advanced Web Application with JQuery						
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
CLO 1	03	02	02	00	02	00
CLO 2	02	03	02	00	01	03
Note: High: 03; Moderate: 02; Low: 01; No Mapping: 00						

Suggested References and E-Resources	
Sr. No.	Suggested 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.
5.	Kogent Learning Solution Inc., "HTML5 Black Book".
Sr. No.	On-Line Resources available that can be used as Reference Practical
1.	https://www.w3schools.com/
2.	https://www.tutorialspoint.com/
3.	https://www.javatpoint.com/