



AMITY UNIVERSITY

MADHYA PRADESH

Established vide Government of Madhya Pradesh Act No. 27 of 2010

Syllabus

Programme Name: B. Tech. (CSE)	Session: 2023-27
Course Code: CSE505	Course Name: INTRODUCTION TO WEBTECHNOLOGIES Semester: V

Credits (Total)	L	T	P	Marks (Internal/External)	Contact Hours(per week)	Independent Study Hour (perweek)	Section (Group)
2	2	0	0	30	70	2	2
UG level				Basic and applied	Student specific course outcome	Higher Education Placement Research	

Course Objective:

- Understand different components in web technology and know about CGI and CMS.
- Develop interactive Web pages using HTML/XHTML and CSS.
- Understand the concepts of Java Script and JQuery.
- Design and develop websites for user interactions using JavaScript and JQuery.
- Develop Web applications using PHP

Course outcomes: After completion of course, the student will be able to:

CO-1	Analyze a web page and identify its elements and attributes.
CO-2	Create web pages using X HTML and Cascading Style Sheets.
CO-3	Build dynamic web pages using JavaScript (Client side programming).
CO-4	Create XML documents and Schema.

Teaching Pedagogy:

T1	Classroom teaching (white board), Power Point Presentations, Interactive lectures, Inquiry based teaching
T2	Assignments, Flip Class/ Seminars, Quiz, Oral Viva-voce examination

Assessment Tools

AT1-1	Quiz
AT1-2	Midterm Exams
AT1-3	Flip Class
AT1-4	Seminar Presentation
AT1-5	Assignments
AT1-6	Poster
AT1-7	Oral Viva-voce examination

Prerequisites: Basics of Web Technology and Programming

Module wise contents details	Assessment tools
Module I: Introduction to HTML/XHTML: (6 Hours) Origins and Evolution of HTML and XHTML, Basic Syntax of HTML, Standard HTML Document Structure, Basic Text Markup, Images, Hypertext Links, Lists, Tables, Forms, HTML5, Syntactic Differences between HTML and XHTML.	Quiz Mid-term Exam Assignment
Module II: Introduction to Styles sheets and Frameworks Cascading Style Sheets:(5 Hours) Levels of Style Sheets - Style Specification Formats, Selector Forms, Property-Value Forms, Font Properties, List Properties, Alignment of Text, Color, The Box Model, Background Images, The span, and div Tags. Frameworks: Overview and Basics of Responsive CSS Frameworks - Bootstrap.	Mid-Term Quiz Assignment
Module III: Introduction to JavaScript and jQuery: (9 Hours) Overview of JavaScript, Object Orientation and JavaScript, General Syntactic Characteristics Primitives, Operations, and Expressions, Screen Output and Keyboard Input, Control Statements, Object Creation and Modification, Arrays, Functions, Callback Functions, Java Script HTML DOM. Introduction to jQuery: Overview and Basics	Mid-Term Oral Viva-voce examination Seminar Presentation
Module IV: Introduction to PHP: (10 Hours) Origins and Uses of PHP, Overview of PHP - General Syntactic Characteristics - Primitives, Operations, and Expressions - Control Statements, Arrays, Functions, Pattern Matching, Form Handling, Cookies, Session Tracking.	Quiz Assignment Industrial Visit Report Seminar Presentation

List of Assignments	<ol style="list-style-type: none"> 1. Design Wireframes for your semester project based on Web Design Principles (Tools like, www.cacoo.com www.gliffy.com) 2. Formatting web pages with CSS (Inline CSS, Document level CSS and External CSS)[Create semester project website's home page] 3. Formatting web pages with CSS [Create semester project website's inner pages] 4. Browser interaction and form validations (Web browser environments, forms and validations, image sliders) [Image slider plugins of jQuery, Client-side validation of Registration & Login page to be created in semester project website] 5. Introduction to PHP (Starting to script on server side, Arrays, function, validations)[Server-side validations for Registration and Login page of semester project website] 6. Advanced PHP (Management of sessions and cookies) [Implement Admin login/logout functionality and cookie wherever required] 7.
Suggested reading:	<ul style="list-style-type: none"> • P. J. Deitel, H.M. Deitel, Internet & World Wide Web How To Program, 4/e, Pearson International Edition 2010. • Robert W Sebesta, Programming the World Wide Web, 7/e, Pearson Education Inc., 2014. • Bear Bibeault and Yehuda Katz, jQuery in Action, Second Edition, Manning Publications. [Chapter 1] Black Book, Kogent Learning Solutions Inc. 2009. • Bob Boiko, Content Management Bible, 2nd Edition, Wiley Publishers. [Chapter 1,2] • Chris Bates, Web Programming Building Internet Applications, 3/e, Wiley India Edition 2009. • Dream Tech, Web Technologies: HTML, JS, PHP, Java, JSP, ASP.NET, XML, AJAX, • Jeffrey C Jackson, Web Technologies A Computer Science Perspective,

	<p>Pearson Education Inc. 2009.</p> <ul style="list-style-type: none"> Lindsay Bassett, Introduction to JavaScript Object Notation: A To-the-Point Guide to JSON 1st Edition, O'Reilly. [Chapter 1,2,3,4] 7. <p>Matthew MacDonald, WordPress: The Missing Manual, 2nd Edition, O'Reilly Media.</p>
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Additional Learning:

Suggested e-resources (Websites/e-books)	https://www.geeksforgeeks.org/web-technology/
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Assessment Plan:

Component of Evaluation	Description	Code	Weightage %
Continuous Internal Evaluation	Mid Term	CT	15%
	Seminar/Viva-Voce/Quiz/Home Assignment	S/V/Q/HA	10%
Attendance	A minimum of 75% Attendance is required to be maintained by a student to be qualified for taking the End Semester examination. The dispensation of 25% includes all types of leaves. including medical leaves.	A	5%
End Semester Examination	End Semester Examination	ESE	70%
Total			100%

Abbreviations: CT: Class Test, HA: Home Assignment, S/V/Q: Seminar/Viva/Quiz, ESE: End Semester Examination; A: Attendance

Course Articulation Matrix (Mapping of COs with POs)

Course Outcomes	Correlation with POs														Correlation with PSOs			
	P	P	P	P	P	P	P	P	P	P	P	P	O	P	P	P		
	O	O	O	O	O	O	O	O	O	O	O	O	1	2	3	S	S	S
CO1	3	3	3	2	1								2	1	2	2		
CO2	3	3	3														2	
CO3	3	3	3	1									2			2	3	
CO4	3	2	3	1												2	3	