

# VASAVI COLLEGE OF ENGINEERING(Autonomous)

IBRAHIMBAGH, HYDERABAD – 500 031

## Department of Computer Science & Engineering

WEB DESIGN (OPEN ELECTIVE-III)

SYLLABUS FOR B.E. V-SEMESTER  
(COMMON FOR CIVIL, ECE, EEE & MECH)

L:T:P (Hrs./week): 3:0:0	SEE Marks : 60	Course Code : <b>U20OE520CS</b>
Credits : 3	CIE Marks : 40	Duration of SEE : 3 Hours

<b>COURSE OBJECTIVES</b>	<b>COURSE OUTCOMES</b>
	<i>On completion of the course, students will be able to</i>
1 Develop web application using HTML, CSS, JavaScript and PHP.	1 Design static web pages.
	2 Apply styles to the web pages.
	3 Create dynamic web pages using JavaScript.
	4 Design DTD and schema for a given XML file.
	5 Develop server side components using PHP.

**UNIT-I:** Web Basics and overview: Introduction to Internet, World Wide Web, Web Browsers, Web Servers, URL, MIME, HTTP, Web Programmers Tool Box, Introduction to HTML Purpose of HTML and XHTML, Text Formatting, Hypertext Links, Images, Lists, Tables, Forms and Frames.

**UNIT-II:** Cascading Style Sheets- Levels of Stylesheet, Style Specification Formats, Selector Formats, Property Value Forms, Font Properties, List Properties, Alignment of Text, Box Model, Background Images, Borders, div and span tags, Conflict Resolution.

**UNIT-III:** JavaScript - Object Orientation and JavaScript, Primitives, Operations, Expressions, Control Statements, Object Creation, Arrays, Functions- Introduction, Program Modules in JavaScript, Programmer-Defined Functions, Function Definitions, Random-Number Generation, Scope Rules, JavaScript Global Functions, Recursion, Constructors, Regular

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Expressions, DOM Model, Events, Event Handling in JavaScript, JavaScript objects.

**UNIT-IV:** Introduction to XML, Syntax of XML, XML Document Structure, Document type Definition, Namespaces and Schemas.  
Client-Server Architecture, Multi-tier Architecture, Web server.

**UNIT-V:** PHP- Overview of PHP, General Syntactic Characteristics, Primitives, Operations, and Expressions, Output, Control Statements, Arrays, Functions, Pattern Matching, Form Handling, Cookies and Session Tracking.

**Learning Resources:**

1. Robert W. Sebesta, "Programming the World Wide Web", Pearson Education.(4<sup>th</sup> Edition)
2. Uttam K.Roy, "Web Technologies", Oxford publishers.
3. <http://www.w3schools.com>
4. <https://www.php.net/manual/en/tutorial.php>

The break-up of CIE: Internal Tests + Assignments + Quizzes

1	No. of Internal Tests	:	<input type="text" value="2"/>	Max. Marks for each Internal Tests	:	<input type="text" value="30"/>
2	No. of Assignments	:	<input type="text" value="3"/>	Max. Marks for each Assignment	:	<input type="text" value="5"/>
3	No. of Quizzes	:	<input type="text" value="3"/>	Max. Marks for each Quiz Test	:	<input type="text" value="5"/>

Duration of Internal Tests : 1 Hour 30 Minutes