WED TECHNOLOGI AND ITS ATTEICATIONS				
[As per Choice Based Credit System (CBCS) scheme]				
(Effective from the academic year 2017 - 2018)				
SEMESTER – VII				
Subject Code	17CS71	IA Marks	40	
Number of Lecture Hours/Week	04	Exam Marks	60	
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CREDITS – 04				
Module – 1				Teaching Hours
Introduction to HTML, What is HTML and Where did it come from?, HTML				10 Hours
Syntax, Semantic Markup, Structure of HTML Documents, Quick Tour of				
HTML Elements, HTML5 Semantic Structure Elements, Introduction to CSS,				
What is CSS, CSS Syntax, Location of Styles, Selectors, The Cascade: How				
Styles Interact, The Box Model, CSS Text Styling.				
Module – 2				
HTML Tables and Forms, Introducing Tables, Styling Tables, Introducing				10 Hours
Forms, Form Control Elements, Table and Form Accessibility, Microformats,				
Advanced CSS: Layout, Normal Flow, Positioning Elements, Floating Elements,				
Constructing Multicolumn Layouts, Approaches to CSS Layout, Responsive				
Design, CSS Frameworks.				
Module – 3				
JavaScript: Client-Side Scripting, What is JavaScript and What can it do?, 10 Hour				
JavaScript Design Principles, Where does JavaScript Go?, Syntax, JavaScript				
Objects, The Document Object Model (DOM), JavaScript Events, Forms,				
Introduction to Server-Side Development with PHP, What is Server-Side				
Development, A Web Server's Responsibilities, Quick Tour of PHP, Program				
Control, Functions				
Module – 4				
PHP Arrays and Superglobals, Arrays, \$_GET and \$_POST Superglobal Arrays,				10 Hours
\$_SERVER Array, \$_Files Array, Reading/Writing Files, PHP Classes and				
Objects, Object-Oriented Overview, Classes and Objects in PHP, Object				
Oriented Design, Error Handling and Validation, What are Errors and				
Exceptions?, PHP Error Reporting	_			
Module – 5				
Managing State, The Problem of	State in Web App	lications, Passing In	formation	10 Hours
via Query Strings, Passing Information via the URL Path, Cookies, Serialization,				
Session State, HTML5 Web Storage, Caching, Advanced JavaScript and jQuery,				
JavaScript Pseudo-Classes, jQuery Foundations, AJAX, Asynchronous File				
Transmission, Animation, Backbone MVC Frameworks, XML Processing and				
Web Services, XML Processing, JSON, Overview of Web Services.				
Course Outcomes: After studying this course, students will be able to				
Define HTML and CSS syntax and semantics to build web pages.				
• Understand the concepts of Construct, visually format tables and forms using HTML				

WEB TECHNOLOGY AND ITS APPLICATIONS

- Understand the concepts of Construct, visually format tables and forms using HTML using CSS
- Develop Client-Side Scripts using JavaScript and Server-Side Scripts using PHP to generate and display the contents dynamically.
- List the principles of object oriented development using PHP
- Illustrate JavaScript frameworks like jQuery and Backbone which facilitates

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developer to focus on core features.

Question paper pattern:

The question paper will have ten questions.

There will be 2 questions from each module.

Each question will have questions covering all the topics under a module.

The students will have to answer 5 full questions, selecting one full question from each module.

Text Books:

1. Randy Connolly, Ricardo Hoar, "**Fundamentals of Web Development**", 1stEdition, Pearson Education India. (**ISBN:**978-9332575271)

Reference Books:

- 1) Robin Nixon, "Learning PHP, MySQL & JavaScript with jQuery, CSS and HTML5", 4thEdition, O'Reilly Publications, 2015. (ISBN:978-9352130153)
- 2) Luke Welling, Laura Thomson, "PHP and MySQL Web Development", 5th Edition, Pearson Education, 2016. (ISBN:978-9332582736)
- 3) Nicholas C Zakas, "Professional JavaScript for Web Developers", 3rd Edition, Wrox/Wiley India, 2012. (ISBN:978-8126535088)
- 4) David Sawyer Mcfarland, "JavaScript & jQuery: The Missing Manual", 1st Edition, O'Reilly/Shroff Publishers & Distributors Pvt Ltd, 2014 (ISBN:978-9351108078)
- 5) Zak Ruvalcaba Anne Boehm, "Murach's HTML5 and CSS3", 3rdEdition, Murachs/Shroff Publishers & Distributors Pvt Ltd, 2016. (ISBN:978-9352133246)