		ITS APPLICATIC		
[As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year 2016 -2017) SEMESTER – VII				
Subject Code	15CS71	IA Marks		20
Number of Lecture Hours/Week	04	Exam Marks		80
Total Number of Lecture Hours	50	Exam Hours		03
	CREDITS	- 04		
Course Objectives: This course w	vill enable studer	nts to		
• Illustrate the Semantic Stru				
Compose forms and tables				
<ul> <li>Design Client-Side program</li> </ul>	•		nrograms us	ing PHP
<ul> <li>Infer Object Oriented Program</li> </ul>	-	-	programs us	ing i in
<ul> <li>Examine JavaScript framev</li> </ul>				
Module – 1	vorks such as jQ	uery and Dackbone		Teaching
Wibuule – I				Hours
Introduction to HTML, What is H	TML and Where	did it come from?	нтмі	10 Hours
Syntax, Semantic Markup, Struc		· · · · · · · · · · · · · · · · · · ·		io nours
HTML Elements, HTML5 Semant				
What is CSS, CSS Syntax, Locatio				
Styles Interact, The Box Model, C	•		110 //	
Module – 2				
HTML Tables and Forms, Introd	ducing Tables.	Styling Tables. Int	roducing	10 Hours
Forms, Form Control Elements, Table and Form Accessibility, Microformats,				10 110 11
Advanced CSS: Layout, Normal F				
Constructing Multicolumn Layou				
Design, CSS Frameworks.		•	1	
Module – 3				
JavaScript: Client-Side Scripting,	What is Javas	Script and What ca	an it do?,	10 Hours
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, Arr	ays, \$_GET and	<pre>\$_POST Superglob</pre>	oal Arrays,	10 Hours
SERVER Array, S_Files Array				
Objects, Object-Oriented Overvie	ew, Classes and	l Objects in PHP,	Object	
Oriented Design, Error Handling and Validation, What are Errors and				
Exceptions?, PHP Error Reporting	, PHP Error and	Exception Handling		
Module – 5				
Managing State, The Problem of				10 Hours
via Query Strings, Passing Informa				
Session State, HTML5 Web Stora				
JavaScript Pseudo-Classes, jQuery Foundations, AJAX, Asynchronous File				
Transmission, Animation, Backbo			essing and	
Web Services, XML Processing, J				
Course Outcomes: After studying				
• Adapt HTML and CSS syn	tax and semanti	es to build web page	es.	

- Construct and visually format tables and forms using HTML and CSS
- Develop Client-Side Scripts using JavaScript and Server-Side Scripts using PHP to generate and display the contents dynamically.
- Appraise the principles of object oriented development using PHP
- Inspect JavaScript frameworks like jQuery and Backbone which facilitates 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"**, 1<sup>st</sup>Edition, Pearson Education India. (ISBN:978-9332575271)

## **Reference Books:**

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