		D ITS APPLICATI			
		t System (CBCS) scl			
(Effective		emic year 2016 -201	7)		
	SEMESTE	The second secon			
Subject Code	15CS71	IA Marks		20	
Number of Lecture Hours/Week	04	Exam Marks		80	
Total Number of Lecture Hours	50	Exam Hours		03	
	CREDIT				
Course Objectives: This course v					
Illustrate the Semantic Street					
 Compose forms and tables 	using HTML	and CSS			
 Design Client-Side program 	ms using JavaS	cript and Server-Side	programs u	sing PHP	
 Infer Object Oriented Prog 	ramming capa	bilities of PHP			
Examine JavaScript frame	works such as j	Query and Backbone			
Module – 1				Teaching	
				Hours	
ntroduction to HTML, What is	HTML and W	here did it come from	n?, HTML	10 Hours	
Syntax, Semantic Markup, Struc	cture of HTM	L Documents, Quic	k Tour of	(V)	
HTML Elements, HTML5 Seman	ntic Structure	Elements, Introduction	on to CSS,		
What is CSS, CSS Syntax, Loca	tion of Styles	, Selectors, The Case	cade: How	10/	
Styles Interact, The Box Model, Condule – 2	SS Text Styling	ζ.			
11 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1	1 ' 711	4 / / /	1. 1.4	School House	
HTML Tables and Forms, Intro	Table and Fam	s, Styling Tables, I	ntroducing	10 Hours	
Forms, Form Control Elements, Advanced CSS: Layout, Normal F	laule and For	m Accessibility, Mic	roformats,		
Constructing Multicolumn Layou	ts Annroacha	s to CSS I awant E	Elements,		
Design, CSS Frameworks.	is, Approache	s to CSS Layout, F	Responsive		
Iodule – 3					
avaScript: Client-Side Scripting,	What is law	Script and What or	n it deal	10.77	
vaScript Design Principles, Wh	ere does Iava	Script Go? Symtox	In It do?,	10 Hours	
bjects, The Document Object	Model (DOM	Delipt Go:, Sylliax,	avascript E		
troduction to Server-Side Dev	elopment with	PHP What is S	s, rollis,		
evelopment, A Web Server's Re	esponsibilities.	Ouick Tour of PHP	Program		
ontrol, Functions	•	Carrie Total Of Tilli,	Trogram		
odule – 4					
HP Arrays and Superglobals, Arra	ys, \$ GET and	d \$ POST Superglob	al Arrays	10 Hours	
SERVER Array, \$ Files Array	, Reading/Wr	iting Files, PHP Cla	bee sage	10 110012	
bjects, Object-Oriented Overvie	w, Classes a	nd Objects in PHI	Object		
nented Design, Error Handling	g and Valida	ition, What are Er	rors and		
cceptions?, PHP Error Reporting,	PHP Error and	Exception Handling	Total unitu		
odule – 5					
anaging State, The Problem of Sta	ate in Web App	olications, Passing In	formation	10 Hours	
Query Strings, Passing Informat	ion via the UR	L Path, Cookies Seri	alization	10 Hours	
ssion State, HTML5 Web Storage	e, Caching, Ad	vanced JavaScript and	d iOnerv		
ascript Pseudo-Classes, jQuery	Foundations.	AJAX. Asynchron	oue File		
ansmission, Animation, Backbon	e MVC Frame	eworks, XMI, Proces	sing and		
eb Services, XML Processing, JS(ON, Overview	of Web Services			
urse Outcomes: After studying th	is course, stud	ents will be able to			
 Adapt HTML and CSS syntax 					

Adapt HTML and CSS syntax and semantics to build web pages.

- 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:

 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", 4th Edition, 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)
- 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)
- Zak Ruvalcaba Anne Boehm, "Murach's HTML5 and CSS3", 3rdEdition, Murachs/Shroff Publishers & Distributors Pvt Ltd, 2016. (ISBN:978-9352133246)

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