Ref No:		

SRI KRISHNA INSTITUTE OF TECHNOLOGY, BANGALORE



Academic Year 2019-20

Program:	B E – Information Science and Engineering		
Semester:	7		
Course Code: 15CS71			
Course Title:	Web Technology and Its Application		
Credit / L-T-P:	4/ 4-0-0		
Total Contact Hours:	50		
Course Plan Author:	Y Vamsi Krishna		

Academic Evaluation and Monitoring Cell

No. 29, Chimney hills, Hesaraghatta Road, Chikkabanavara BANGALORE-560090, KARNATAKA , INDIA Phone / Fax :+91-08023721315/23721477, Web: www.skit.org.in

Table of Contents

Web Technology and Its Application	
A. COURSE INFORMATION	
1. Course Overview	3
Web Technology and Its Application	3
2. Course Content	
3. Course Material	
4. Course Prerequisites	4
5. Content for Placement, Profession, HE and GATE	5
B. OBE PARAMETERS	5
1. Course Outcomes	5
2. Course Applications	
Mapping And Justification	
4. Articulation Matrix	
5. Curricular Gap and Content	
6. Content Beyond Syllabus	
C. COURSE ASSESSMENT	
1. Course Coverage	
2. Continuous Internal Assessment (CIA)	
D1. TEACHING PLAN - 1	
Module - 1	
Module – 2	
E1. CIA EXAM – 1	
a. Model Question Paper - 1	
Web Technology and Its Application	
b. Assignment -1	
D2. TEACHING PLAN - 2	
Module – 3	
Module – 4	
E2. CIA EXAM – 2	
a. Model Question Paper - 2	
b. Assignment – 2 D3. TEACHING PLAN - 3	
Module – 5	
E3. CIA EXAM – 3	
a. Model Question Paper - 3b. Assignment – 3	
_	
F. EXAM PREPARATION	
University Model Question Paper SEE Important Questions	
2. OLE IIIIpurtant Questions	I 8

G. Content to Course Outcomes	20
1. TLPA Parameters	20
2. Concepts and Outcomes:	21

Note: Remove "Table of Content" before including in CP Book

Each Course Plan shall be printed and made into a book with cover page

Blooms Level in all sections match with A.2, only if you plan to teach / learn at higher levels

A. COURSE INFORMATION

1. Course Overview

Degree:	BE	Program:	IS
Semester:	VII	Academic Year:	2019-20
Course Title:	Web Technology and Its Application	Course Code:	15CS71
Credit / L-T-P:	4/ 4-0-0	SEE Duration:	180 Minutes
Total Contact Hours:	50	SEE Marks:	80 Marks
CIA Marks:	20	Assignment	5 / Module
Course Plan Author:	Vamsi Krishna Y	Sign	Dt: 12-08-2019
Checked By:		Sign	Dt:
CO Targets	CIA Target : 91 %	SEE Target:	53 %

Note: Define CIA and SEE % targets based on previous performance.

2. Course Content

Content / Syllabus of the course as prescribed by University or designed by institute. Identify 2 concepts per module as in G.

Mod	Content	Teachi	Identified Module	Blooms
ule		ng	Concepts	Learning
		Hours		Levels
1	Introduction to HTML, What is HTML and Where did it come	10	HTML	L2,L4
	from?, HTML Syntax, Semantic Markup, Structure of HTML		DOCUMENTS ,	
	Documents, Quick Tour of HTML Elements, HTML5 Semantic		CSS	
	Structure Elements, Introduction to CSS, What is CSS, CSS		DOCUMENTS	
	Syntax, Location of Styles, Selectors, The Cascade: How Styles			
	Interact, The Box Model, CSS Text Styling.			
2	HTML Tables and Forms, Introducing Tables, Styling Tables,	10	develop HTML	L4, L3
	Introducing Forms, Form Control Elements, Table and Form		Forms	
	Accessibility, Microformats, Advanced CSS: Layout, Normal			
	Flow, Positioning Elements, Floating Elements, Constructing			
	Multicolumn Layouts, Approaches to CSS Layout,			
	ResponsiveDesign, CSS Frameworks.			
3	JavaScript: Client-Side Scripting, What is JavaScript and What	10	Client-Side	L3 ,L4
	can it do?, JavaScript Design Principles, Where does		Scripting,	
	JavaScript Go?, Syntax, JavaScriptObjects, The Document		Server-Side	
	Object Model (DOM), JavaScript Events, Forms,		Scripting	
	Introduction to Server-Side Development with PHP, What is			
	Server-SideDevelopment, A Web Server's Responsibilities,			

	Quick Tour of PHP, ProgramControl, Functions			
4	PHP Arrays and Superglobals, Arrays, \$_GET and \$_POST	10	PHP Arrays	L5
	Superglobal Arrays, \$_SERVER Array, \$_Files Array, Reading/		php Exception	
	Writing Files, PHP Classes and Objects, Object-Oriented			
	Overview, Classes and Objects in PHP, Object Oriented			
	Design, Error Handling and Validation, What are Errors			
	andExceptions?, PHP Error Reporting, PHP Error and			
	Exception Handling			
5	Managing State, The Problem of State in Web Applications,	10	Memory	L4,L6
	Passing Information via Query Strings, Passing Information via		management,	
	the URL Path, Cookies, Serialization, Session State, HTML5		Pseudo-Classes	
	Web Storage, Caching, Advanced JavaScript and			
	jQuery,JavaScript Pseudo-Classes, jQuery Foundations, AJAX,			
	Asynchronous FileTransmission, Animation, Backbone MVC			
	Frameworks, XML Processing and Web Services, XML			
	Processing, JSON, Overview of Web Services.			
1- 5	Total	50	-	-

3. Course Material

Books & other material as recommended by university (A, B) and additional resources used by course teacher (C).

- 1. Understanding: Concept simulation / video ; one per concept ; to understand the concepts ; 15-30 minutes
- 2. Design: Simulation and design tools used software tools used ; Free / open source
- 3. Research: Recent developments on the concepts publications in journals; conferences etc.

Module	Details	Chapters	Availability
S		in book	
A	Text books (Title, Authors, Edition, Publisher, Year.)	-	-
1-5	Randy Connolly, Ricardo Hoar, "Fundamentals of Web Development", 1 st Edition,Pearson Education India. (ISBN:978- 9332575271)		In Lib / In Dept
В	Reference books (Title, Authors, Edition, Publisher, Year.)	-	-
1, 2	1)Robin Nixon, "Learning PHP, MySQL &JavaScript with jQuery, CSS and HTML5", 4 th Edition, O'Reilly Publications, 2015. (ISBN:978-9352130153) 2) Luke Welling, Laura Thomson, "PHP and MySQL Web Development", 5 th Edition,Pearson Education, 2016. (ISBN:978-9332582736) 3) Nicholas C Zakas, "Professional JavaScript for Web Developers", 3 rd Edition,Wrox/Wiley India, 2012. (ISBN:978-8126535088)		In Lib
		-	-
С	Concept Videos or Simulation for Understanding		
C1	https://www.w3schools.com/		
C2	https://www.w3.org/Style/CSS/Overview.en.html		
C3	https://www.tutorialspoint.com/php/index.htm		
C4	https://www.javascript.com/		
C5	https://www.tutorialspoint.com/ajax/what_is_ajax.htm		
D	Software Tools for Design	-	-
1	https://www.eclipse.org/downloads/		

E	Recent Developments for Research	-	-
1	https://www.itm-conferences.org/articles/itmconf/abs/2019/02/		
	itmconf icicci2018 01008/itmconf icicci2018 01008.html		
2	http://ijsrcseit.com/paper/CSEIT195368.pdf		
F	Others (Web, Video, Simulation, Notes etc.)	-	-
1	https://nptel.ac.in/courses/106105084/ (NPTEL course related to web		
	Technology course		

4. Course Prerequisites

Refer to GL01. If prerequisites are not taught earlier, GAP in curriculum needs to be addressed. Include in Remarks and implement in B.5.

Students must have learnt the following Courses / Topics with described Content . . .

Mod	Course	Course Name	Topic / Description	Sem	Remarks	Blooms
ules	Code					Level
-						
-						

5. Content for Placement, Profession, HE and GATE

The content is not included in this course, but required to meet industry & profession requirements and help students for Placement, GATE, Higher Education, Entrepreneurship, etc. Identifying Area / Content requires experts consultation in the area.

Topics included are like, a. Advanced Topics, b. Recent Developments, c. Certificate Courses, d. Course Projects, e. New Software Tools, f. GATE Topics, g. NPTEL Videos, h. Swayam videos etc.

Mod	Topic / Description	Area	Remarks	Blooms
ules				Level
1	Designing of static web pages, Client	Client-server		L3
	server architecture, server side scripting	scripting		
3				
3				
5				
-				
-				

B. OBE PARAMETERS

1. Course Outcomes

Expected learning outcomes of the course, which will be mapped to POs. Identify a max of 2 Concepts per Module. Write 1 CO per Concept.

Mod	Course	Course Outcome	Teach.	Concept	Instr	Assessme	Blooms'
ules	Code.#	At the end of the course,	Hours		Method	nt Method	Level
		student should be able to					
1	15CS71.1	Apply HTML syntax and semantics	05	HTML	Lecture /	Slip Test	L3

		to build web page		DOCUMEN TS	PPT		Apply
1	15CS71.2	Illustrate CSS syntax and semantics to build web page	05	CSS DOCUMEN TS		Assignme nt	L3 Apply
2	15CS71.3	Design HTML forms to build web page	05	develop HTML Forms	Lecture / PPT	Assignme nt and Slip Test	L3 Apply
2	15CS71.4	Demonstrate CSS layout to build web page	05	develop CSS Forms		Assignme nt	L3 Apply
3	15CS71.5	Develop a client – side javascript scripting to build web page	05	Client-Side Scripting	Lecture	Slip test	L3 Apply
3	15CS71.6	Demonstrate server – side script using PHP to generate and dilsplay the content dynamically.	05	Server-Side Scripting	Lecture and Tutorial	Assignme nt	L3 Apply
4	15CS71.7	Apply object oriented concepts in PHP to build web page	05	PHP Arrays	Lecture	Assignme nt and Slip Test	L3 Apply
4	15CS71.8	Show different Exception and error handling methods in order to validate web page	05	php Exception	Lecture	Assignme nt	L3 Apply
5	15CS71.9	Report small memory management using cookies and URL in web application	05	Memory manageme nt	Lecture	Assignme nt	L2 Understandi ng
5	15CS71.10	Explain the concept of AJAX and Jquery for web services	05	Pseudo- Classes	Lecture and Tutorial	Assignme nt	L2 Understandi ng
-	-	Total	50	-	-	-	L2-L6

2. Course Applications

Write 1 or 2 applications per CO.

Students should be able to employ / apply the course learnings to . . .

Mod	Application Area	CO	Level
ules	Compiled from Module Applications.		
1	Demonstrate various HTML Documents with examples	CO1	L3
1	Demonstrate various CSS Selector forms with examples	CO2	L3
2	Develop HTML Documents to build web page using forms	CO3	L3
2	Apply CSS layouts to build web page using forms	CO4	L3
3	Demonstrate a client – side JavaScript scripting to build web page	CO5	L3
3	Illustrate server - side script using PHP to generate and display the content	CO6	L3
	dynamically.		
4	Develop object oriented concepts in PHP to build web page	CO7	L3
4	Illustrate different Exception and error handling methods in order to validate web page	CO8	L3
	Report small memory management using cookies and URL in web application		
5	Report small memory management using cookies and URL in web application	CO9	L2
5	Explain the concept of AJAX and Jquery for web services	CO10	L2

3. Mapping And Justification

CO – PO Mapping with mapping Level along with justification for each CO-PO pair.

To attain competency required (as defined in POs) in a specified area and the knowledge & ability required to accomplish it.

	compl	ısh ıt.	I		
Mod ules	Map	pping	Mapping Level	Justification for each CO - PO pair	Leve I
-	CO	РО	-	'Area': 'Competency' and 'Knowledge' for specified 'Accomplishment'	-
1	CO1	PO1	L1	Knowledge is required to understand HTML tags to build web pages	L3
-		PO2	-	Analysing the problem is not required. no mapping	L3
		PO3	_	No design development required . No mapping	L3
		PO4	-	No investigation and interpretation. No mapping	L3
		PO5	L2	No tool used . No mapping	L3
		P06	-	Applying the contextual knowledge to the society to build website	L3
		PO7	-	Have to understand the impact of HTML for sustainability of web site	L3
		PO8	-	Ethical responsibility is required to build web site	L3
		PO9	-	Individual as well as team work required to build web page.	L3
		PO10	-	Communication is required with in a team to build web page .	L3
		PO11	-	No finance management required . No mapping.	L3
		PO12		Life long learning required to maintain web sites .	L3
1		PO1	L1	Knowledge is required to understand HTML tags to build web pages	L3
		PO2	L4	Analysing the problem is not required. no mapping	L3
		PO3	-	No design development required . No mapping	L3
		PO4	-	No investigation and interpretation. No mapping	L3
		PO5	L2	No tool used . No mapping	L3
		P06		Applying the contextual knowledge to the society to build website	L3
		PO7	-	Have to understand the impact of HTML for sustainability of web site	L3
		PO8	_	Ethical responsibility is required to build web site	L3
		PO9	_	Individual as well as team work required to build web page.	L3
		PO10		Communication is required with in a team to build web page .	L3
		PO11		No finance management required . No mapping.	L3
		PO12		Life long learning required to maintain web sites .	L3
2		PO1	L1	Knowledge is required to understand HTML tags to build web pages	L3
		PO2	L4	Analysing the problem is not required. no mapping	L3
		PO3	-	No design development required . No mapping	L3
		PO4	-	No investigation and interpretation. No mapping	L3
		PO5	L2	No tool used . No mapping	L3
		P06	-	Applying the contextual knowledge to the society to build website	L3
		PO7	-	Have to understand the impact of HTML for sustainability of web site	L3
		PO8	-	Ethical responsibility is required to build web site	L3
		PO9	-	Individual as well as team work required to build web page.	L3
		PO10	-	Communication is required with in a team to build web page .	L3
		PO11		No finance management required . No mapping.	L3
		PO12		Life long learning required to maintain web sites .	L3
2		PO1	L1	Knowledge is required to understand HTML tags to build web pages	L3
		PO2	L3	Analysing the problem is not required. no mapping	L3
		PO3	L3	No design development required . No mapping	L3
		PO4	L2	No investigation and interpretation. No mapping	L3
		PO5	L2	No tool used . No mapping	L3

COURSE PLAN - CAY 2019-20

	CO4 PO6	_	Applying the contextual knowledge to the society to build website	L3
	CO4 PO7	-	Have to understand the impact of HTML for sustainability of web site	L3
	CO4 PO8	L2	Ethical responsibility is required to build web site	L3
	CO4 PO9	L2	Individual as well as team work required to build web page.	L3
	CO4 PO10		Communication is required with in a team to build web page .	L3
	CO4 PO11		No finance management required . No mapping.	L3
	CO4 PO12		Life long learning required to maintain web sites .	L3
3	CO5 PO1	L1	Knowledge is required to understand HTML tags to build web pages	L3
<u> </u>	CO5 PO2	L3	Analysing the problem is not required. no mapping	L3
	CO5 PO3	-	No design development required . No mapping	L3
	CO5 PO4	_	No investigation and interpretation. No mapping	L3
	CO5 PO5	L2	No tool used . No mapping	L3
	CO5 PO6	-	Applying the contextual knowledge to the society to build website	L3
	CO5 PO7	_	Have to understand the impact of HTML for sustainability of web site	L3
	CO5 PO8	_	Ethical responsibility is required to build web site	L3
	CO5 PO9	_	Individual as well as team work required to build web page.	L3
	CO5 PO10		Communication is required with in a team to build web page.	L3
	CO5 PO11		No finance management required . No mapping.	L3
	CO5 PO11			L3
3	CO5 PO12	L2	Life long learning required to maintain web sites .	L3
3	 	L2 L3	Knowledge is required to understand HTML tags to build web pages	L3
			Analysing the problem is not required. no mapping	
	CO6 PO3	L4	No design development required . No mapping	L3
	CO6 PO4	-	No investigation and interpretation. No mapping	L3
	CO6 PO5	L2	No tool used . No mapping	L3
	CO6 PO6	-	Applying the contextual knowledge to the society to build website	L3
	CO6 PO7	-	Have to understand the impact of HTML for sustainability of web site	L3
	CO6 PO8	-	Ethical responsibility is required to build web site	L3
	CO6 PO9	-	Individual as well as team work required to build web page.	L3
	CO6 PO10		Communication is required with in a team to build web page .	L3
	CO6 PO11		No finance management required . No mapping.	L3
	CO6 PO12		Life long learning required to maintain web sites .	L3
4	CO7 PO1	L2	Knowledge is required to understand HTML tags to build web pages	L3
	CO7 PO2	L4	Analysing the problem is not required. no mapping	L3
	CO7 PO3	L5	No design development required . No mapping	L3
	CO7 PO4	-	No investigation and interpretation. No mapping	L3
	CO7 PO5	L2	No tool used . No mapping	L3
	CO7 PO6	-	Applying the contextual knowledge to the society to build website	L3
	CO7 PO7	-	Have to understand the impact of HTML for sustainability of web site	L3
	CO7 PO8	-	Ethical responsibility is required to build web site	L3
	CO7 PO9	-	Individual as well as team work required to build web page.	L3
	CO7 PO10		Communication is required with in a team to build web page .	L3
	CO7 PO11		No finance management required . No mapping.	L3
	CO7 PO12		Life long learning required to maintain web sites .	L3
4	CO8 PO1	L2	Knowledge is required to understand HTML tags to build web pages	L3
	CO8 PO2	L3	Analysing the problem is not required. no mapping	L3
	CO8 PO3	L3	No design development required . No mapping	L3
	CO8 PO4	L4	No investigation and interpretation. No mapping	L3
	CO8 PO5	L2	No tool used . No mapping	L3
	CO8 PO6	-	Applying the contextual knowledge to the society to build website	L3

	CO8		-	Have to understand the impact of HTML for sustainability of web site	L3
	CO8		-	Ethical responsibility is required to build web site	L3
	CO8		L2	Individual as well as team work required to build web page.	L3
		PO10	-	Communication is required with in a team to build web page .	L3
		PO11	-	No finance management required . No mapping.	L3
	CO8	PO12	-	Life long learning required to maintain web sites .	L3
5	CO9	PO1	L2	Knowledge is required to understand HTML tags to build web pages	L3
	CO9	PO2	L4	Analysing the problem is not required. no mapping	L3
	CO9	PO3	L6	No design development required . No mapping	L3
	CO9	PO4	L3	No investigation and interpretation. No mapping	L3
	CO9	PO5	L2	No tool used . No mapping	L3
	CO9	P06	-	Applying the contextual knowledge to the society to build website	L3
	CO9	PO7	-	Have to understand the impact of HTML for sustainability of web site	L3
	CO9	PO8	L2	Ethical responsibility is required to build web site	L3
	CO9	PO9	L2	Individual as well as team work required to build web page.	L3
	CO9	PO10	L1	Communication is required with in a team to build web page .	L3
	CO9	PO11	-	No finance management required . No mapping.	L3
	CO9	PO12	-	Life long learning required to maintain web sites .	L3
5	CO1 0	PO1		Knowledge is required to understand HTML tags to build web pages	L3
	CO1 0	PO2		Analysing the problem is not required. no mapping	L3
	CO1 0	PO3		No design development required . No mapping	L3
	CO1 0	PO4		No investigation and interpretation. No mapping	L3
	CO1 0	PO5		No tool used . No mapping	L3
	CO1 0	PO6		Applying the contextual knowledge to the society to build website	L3
	CO1 0	PO7		Have to understand the impact of HTML for sustainability of web site	L3
	CO1 0	PO8		Ethical responsibility is required to build web site	L3
	CO1 0	PO9		Individual as well as team work required to build web page.	L3
	CO1 0	PO10		Communication is required with in a team to build web page .	L3
	CO1 0	PO11		No finance management required . No mapping.	L3
		PO12		Life long learning required to maintain web sites .	L3
				1	

4. Articulation Matrix

CO – PO Mapping with mapping level for each CO-PO pair, with course average attainment.

-	-	Course Outcomes					P	rog	ran	ı Oı	utco	me	S					-
Mod	CO.#	At the end of the course	РО	PO	РΟ	РΟ	РΟ	РΟ	РΟ	РΟ	РΟ	PO	РΟ	РΟ	PS	PS	PS	Lev
ules		student should be able to	1	2	3	4	5	6	7	8	9	10	11	12	O1	02	О3	el

								1	1						$\overline{}$
		•													
1	15CS71.1	Apply HTML syntax and	√				√	√	√	√	√	\checkmark	L3		L2
		semantics to build web page							<u> </u>						1
1	15CS71.2	,	√				√	√	√	√	√	\checkmark	L3		L4
		semantics to build web page							<u> </u>						\perp
2	15CS71.3	Design HTML forms to build web	√				√	√	√	√	√	\checkmark	L3		L4
		page													$\perp \perp \mid$
2	15CS71.4	Demonstrate CSS layout to build	√				√	√	√	√	√	\checkmark	L3		L3
		web page													
3	15CS71.5	Develop a client – side javascript	√				√	√	√	√	√	\checkmark	L3		L3
		scripting to build web pag													
3	15CS71.6	Demonstrate server – side script	√				√	√	√	√	√	\checkmark	L3		L4
		using PHP to generate and													
		dilsplay the content dynamically.													\perp
4	15CS71.7	Apply object oriented concepts in	√				√	√	√	√	√	\checkmark	L3		L5
		PHP to build web page													
4	15CS71.8	Show different Exception and					√	√	√	√	√	\checkmark	L3		L4
		error handling methods in order to													
		validate web page													
5	15CS71.9	Report small memory	√				√	√	√	√	√	\checkmark	L3		L6
		management using cookies and													
		URL in web application													
5	15CS71.1	Explain the concept of AJAX and	√				√	√	√	√	√	√	L3		
	0	Jquery for web services													
-	15CS71	Average attainment (1, 2,													-]
		or 3)													
-	PO, PSO	1.Engineering Knowledge; 2.Prob													
		4.Conduct Investigations of Comp													
		and Society; 7.Environment and													
		10.Communication; 11.Project 51.Software Engineering; \$2.Data		_								₽-IC	ny	Lear	mrg;
	S1.Software Engineering; S2.Data Base Management; S3.Web Design														

5. Curricular Gap and Content

Topics & contents not covered (from A.4), but essential for the course to address POs and PSOs.

Mod	Gap Topic	Actions Planned	Schedule Planned	Resources Person	PO Mapping
ules					

6. Content Beyond Syllabus

Topics & contents required (from A.5) not addressed, but help students for Placement, GATE, Higher Education, Entrepreneurship, etc.

Mod	Gap Topic	Area	Actions Planned	Schedule	Resources	PO Mapping
ules				Planned	Person	
1	Frameworks, librairies	Web				
		Technologies				
1	AngularJS, React.	Web				
		Technologies				

2	Bootstrap, jQuery.	Web Technologies		
		Technologies		
2				
3				
3				
4				
4				
5				
5				

C. COURSE ASSESSMENT

1. Course Coverage

Assessment of learning outcomes for Internal and end semester evaluation. Distinct assignment for each

student. 1 Assignment per chapter per student. 1 seminar per test per student.

Mod	Title	Teach.		No. o	f quest		CO	Levels		
ules		Hours	CIA-1	CIA-2	CIA-3	Asg	Extra	SEE		
							Asg			
1	HTML and CSS	10	2	-	-	1	1	2	CO1, CO2	L3
2	HTML Tables and Forms and CSS	10	2	-	-	1	1	2	CO3, CO4	L3
	Layout									
3	Client-Side & Sever Scripting	10	-	2	-	1	1	2	CO5, CO6	L3
4	PHP Arrays and exception Handling.	10	-	2	-	1	1	2	CO7, C08	L3
5	Managing State and Advanced	10	-	-	4	1	1	2	CO9, CO10	L3
-	Total	50	4	4	4	5	5	10	-	-

2. Continuous Internal Assessment (CIA)

Assessment of learning outcomes for Internal exams. Blooms Level in last column shall match with A.2.

Mod		Weightage in	СО	Levels
ules		Marks		
1,2	CIA Exam – 1	30	CO1, CO2, CO3, CO4	L3
3,4	CIA Exam – 2	30	CO5, CO6, CO7, C08	L3
5	CIA Exam – 3	30	CO9, CO10	L2
1,	Assignment - 1	05	CO1, CO2, CO3, CO4	L3
3,4	Assignment - 2	05	CO5, CO6, CO7, CO8	L3
5	Assignment - 3	05	CO9, CO10	L2
1 - 5				
	Final CIA Marks	20	•	•

D1. TEACHING PLAN - 1

Module - 1

а	Course Outcomes	СО	Bloom
		Time:	
Title:	HTML and CSS	Appr	15 Hrs

COURSE PLAN - CAY 2019-20

			S
-	At the end of the topic the student should be able to	-	Level
1	Apply HTML syntax and semantics to build web page	CO1	L3
2	Illustrate CSS syntax and semantics to build web page	CO2	L3
b	Course Schedule	-	-
Class No	Portion covered per hour	-	-
1	Introduction to HTML, What is HTML and Where did it come from?	C01	L3
2	HTML Syntax	C01	L3
3	Semantic Markup	C01	L3
4	Structure of HTML Documents	C01	L3
5	Quick tour to HTML Elements	C01	L3
6	HTML5 Semantic Structure Elements	C01	L3
7	Introduction to CSS, What is CSS	C02	L3
8	CSS Syntax, Location of Styles,	C02	L3
9	How Styles Interact,	C02	L3
10	The Cascade: The Box Model, CSS Text Styling.	C02	L3
С	Application Areas	СО	Leve
1	Demonstrate various HTML Documents with examples	CO1	L3
2	Demonstrate various CSS Selector forms with examples	CO2	L3
d	Review Questions	-	-
1	Explain the concept of domain name conversion with figure and suitable example.	CO1	L3
2	Give syntax and an example for each of the following tags.	CO1	L3
2	i) <pre> ii)<pse> ii)^{iv) _{v) <bloom> vi) </bloom>}}</pse></pre>	CO1	1.2
3	Give and explain response and request phases of hypertext transfer protocol.	CO1	L3
4	Develop a complete XHTML document with proper headings, a table with four rows and three columns, a form with two labels, two textbox three checkbox, three radio buttons, a submit and a reset button. (Assume suitable content for the web page)	CO1	L3
5	Explain various selector forms with an example.	CO2	L3
6	Explain with an example the concept of framesets and frames in building web pages .	CO2	L3
7	Explain the different levels of style sheets are available in CSS.	CO2	L3
8	Explain the difference between XHTML and HTML.	CO2	L3
9	Explain alignment of text with all properties.	CO2	L3
10	Create an XHTML document that includes atleast two images and enough text to precede the images, flow around them (one on left and one on right) and continue after the last image (Note: Use CSS tags).	CO2	L3
е	Experiences	-	_
1			
2			

Module – 2

Title:	HTML Tables and Forms and CSS Layout	Appr	10 Hrs
a	Course Outcomes	Time:	Bloom
а	course outcomes	_	S
_	The student should be able to:	-	Level
1	Design HTML forms to build web page.	CO3	L3
2	Demonstrate CSS layout to build web page.	CO4	L3
b	Course Schedule	_	_
Class	Module Content Covered	CO	Level
No			
11	HTML Tables and Forms, Introducing Tables	CO3	L3
12	Styling Tables	CO3	L3
13	Introducing Forms	CO3	L3
14	Form Control Elements	CO3	L3
15	Table and Form Accessibility, Microformats	CO3	L3
16	Advanced CSS: Layout	CO4	L3
17	Normal Flow, Positioning Elements	CO4	L3
18	Floating Elements, Constructing Multicolumn Layouts	CO4	L3
19	Approaches to CSS Layout	CO4	L3
20	Responsive Design, CSS Frameworks.	CO4	L3
С	Application Areas	СО	Level
1	Develop HTML Documents to build web page using forms	CO3	L3
2	Apply CSS layouts to build web page using forms	CO4	L4
d	Review Questions	_	_
11	Explain alignment of text with all properties.	CO3	L3
12	Explain the different primitives in JavaScript with examples.	CO3	L3
13	Write a JavaScript to generate a list of first 4 Fibonacci number.	CO3	L3
14	Explain the two ways an array object can be created.	CO3	L3
15	Explain the array methods with suitable examples.	CO4	L3
16	With an example, explain JavaScript screen output and keyboard input methods.	CO4	L3
17	Describe briefly the major differences between Java and JavaScript's.	CO4	L3
18	Explain the control expressions with examples.	CO4	L3
е	Experiences		
1			

E1. CIA EXAM – 1

a. Model Question Paper - 1

_	1	_	l	l		L	L
Cre	⊥15CS71	Sem:	l 7	Marks:	30	Time:	75 minutes
CIS	130311	OCIII.	1	iviai No.	30	I II I I C .	/ S minutes

Code	e:				
Cou	rse	Web Technology and Its Application			
-	-	Note: Answer any 3 questions, each carry equal marks.	Mark s	СО	Level
1	а	Explain the concept of domain name conversion with figure and suitable example.		CO1	L1
	b	Give syntax and an example for each of the following tags. i) <pre> ii)<p>> iii)^{iv) _{v) <blockquote> vi) </blockquote>}}</p>></pre>	4	CO1	L2
	С	Give and explain response and request phases of hypertext transfer protocol.	4	CO2	L3
	d	Develop a complete XHTML document with proper headings, a table with four rows and three columns, a form with two labels, two textbox three checkbox, three radio buttons, a submit and a reset button. (Assume suitable content for the web page)		CO2	L3
2	а	Explain various selector forms with an example.	4	CO1	L2
	b	Explain with an example the concept of framesets and frames in building web pages .	4	CO1	L4
	С	Explain the different levels of style sheets are available in CSS.	4	CO2	L3
	d	Explain the difference between XHTML and HTML.	4	CO2	L2
3	а	Explain alignment of text with all properties.	4	CO3	L1
	b	Explain the different primitives in JavaScript with examples.	4	CO4	L2
	С	Write a JavaScript to generate a list of first 4 Fibonacci number.	4	CO3	L1
	d	Explain the two ways an array object can be created.	4	CO4	L2
4	а	With an example, explain JavaScript screen output and keyboard input methods.	4	CO3	L2
	b	Describe briefly the major differences between Java and JavaScript's.	4	CO4	L2
	С	Explain the control expressions with examples.	4	CO3	L1
	d	Explain the array methods with suitable examples.	4	CO4	L3

b. Assignment -1

Note: A distinct assignment to be assigned to each student.

					Model	Assignmen	t Questions	3				
Crs C	ode:	15CS	71	Sem:	7	Marks:	5 / 10	Time:	90 – 120	120 minutes		
Cours	Course: Web Technology and Its Application											
Note:	Each	studer	nt to	answer 2-3 a	assignments	s. Each assi	ignment ca	rries equal marl	ζ.			
SNo	US	SN			Assignr	nent Des	cription		Mark	CO	Level	
									s			
1	1 1KT16IS002, Explain HTTP.							5	CO1	L3		
2	1KT16 1KT16	IS004, IS047	Expl	ain Web ser	vers operation	on and gen	eral server	characteristics	5	CO1	L3	
3					5	CO1	L3					
4	4 1KT16IS007, What tag and attibute are used to define a link? Discuss ab out it.						5	CO1	L3			
5 1KT16IS008, Briefly explain why should one use XHTML over HTML.					5	CO1	L3					

	1KT16IS009, 1KT15IS015	What is MIME? Explain his type specifications.	5	CO1	L3
7	1KT16IS010, 1KT15IS021	Explain the standard XHTML document structure.	5	CO1	L3
8	1KT16IS011,	Explain the concept of domain name conversion, with figure and a suitable example.	5	CO1	L3
9	1KT16IS015, 1KT15IS035	Explain the following tags		CO1	L3
	1111313033	with syntax and an example for each:			
		i) ii) <pre> iii) ^{iv) _{v) <blockquote></blockquote>}}</pre>	5		
	1KT15IS044		5	CO1	L3
11	1KT16IS017	Explain all controls that are created with the <input/> tag with		CO1	L3
		examples, which are used for text collection.	5		
12	1KT16IS018	Explain the XHTML tags used for lists in documents.	5	CO1	L3
13	1KT16IS023	What is the purpose of external level style sheet? Compare it with		CO2	L3
		the other two levels. Write the format of external level style sheet.	5		
14	1KT16IS024	Explain all selector forms.	5	CO2	L3
15	1KT16IS025	Explain and <div> tags</div>	5	CO2	L3
16	1KT16IS028	Explain following tags, with example:	5	CO2	L3
		i) Select ii)Frame iii)Textarea iv) Div.			
	1KT16IS033	Write a XHTML program to create a table with two levels of column	5	CO2	L3
		label: an overall label, meals and three secondary labels, breakfast,			
		lunch and dinner. There must be two levels			
		of row labels: an overall label, foods and four secondary labels,			
		bread, main course, vegetable and dessert. The cells of the table			
		must contain a number of grams for each category of the			
17		food.			
	1KT16IS034		5	CO2	L3
18		illustrating nested lists.			
	1KT16IS039		5	CO2	L3
		documents. i) ii)tr, th and td attributes iii)rowspan and	Ū		
19		colspan attributes iv) text decoration v) and <div>.</div>			
	1KT16IS040	Explain conflict Resolution.	5	CO2	L3
		Write an XHTML document to describe an ordered list of four		CO2	 L3
		states. Each element of the list must have an unordered list of at	3		_0
21		least two cities in the state.			
	1KT16IS042	Write a XHTML program to create nested ordered lists of cars. The	5	CO2	L3
		Outer List must have three entries: compact, midsize, and sports.	3		_0
		Inside each of these three lists there must be two sublists of body			
22		styles.			
	1KT16IS043	Design an XHTML code for constructing a sample class timetable to	5	CO2	L3
23		illustrate table handling.	3		LO
	1KT16IS044	-	5	CO2	L3
24		Explain any two web programmers tools used in web programming.	<u> </u>	002	LJ

D2. TEACHING PLAN - 2

Module – 3

Title	Client-Side & Sever Scripting	Appr	10 Hrs
		Time:	

COURSE PLAN - CAY 2019-20

а	Course Outcomes	-	Bloom s
-	The student should be able to:	-	Level
1	Develop a client – side javascript scripting to build web page	CO5	L2
2	Demonstrate server – side script using PHP to generate and dilsplay the content dynamically.	CO6	L3
b	Course Schedule		
Class	Module Content Covered		Level
No			
1	JavaScript: Client-Side Scripting	CO5	L3
2	What is JavaScript and What can it do?	CO5	L3
3	JavaScript Design Principles, Where does JavaScript Go?,	CO5	L3
4	Syntax, JavaScript Objects,	CO5	L3
5	The Document Object Model (DOM)	CO5	L3
6	JavaScript Events, Forms	CO5	L3
7	Introduction to Server-Side Development with PHP	CO6	L3
8	What is Server-Side Development	CO6	L3
9	A Web Server's Responsibilities,	CO6	L3
10	Quick Tour of PHP, Program Control , Functions	CO6	L3
C	Application Areas	СО	Level
1	Demonstrate a client – side javascript scripting to build web page	CO5	L3
2	Illustrate server – side script using PHP to generate and display the content dynamically.		L3
d	Review Questions		_
1	What is an applet ?	CO5	L3
2	Discuss the advantages and disadvantages of client side scripting.	CO5	L3
3	How is a browser plug-in different from a browser extension.	CO5	L3
4	Identify and briefly describe at least four different server-side development technologies.		L3
5	Describe the difference between the multi-threaded and multi-process setup of PHP in Apache.	CO6	L3
6	What are server side include files? Why are they important in PHP?	CO6	L3
7	How does PHP allow variable names to be specified at run-time? Explain with an example.		L3
8	How are parameters passed by reference different than those passed by value?	CO6	L3
9	What is the use of functions in JavaScript.?	CO6	L3
10	When should one use try catch blocks?	CO6	L3
е	Experiences	-	-

Module - 4

Title:	PHP Arrays and exception Handling.	Appr Time:	10 Hrs
а	Course Outcomes	-	Bloon
_	The student should be able to:	-	Leve
1	Apply object oriented concepts in PHP to build web page	CO7	L3
2	Show different Exception and error handling methods in order to validate web page	CO8	L3
b	Course Schedule		
Class	Module Content Covered	CO7	Level
No			
1	PHP Arrays and Super globals	CO7	L3
2	Arrays, \$_GET and \$_POST Super global Arrays,	CO7	L3
3	\$_SERVER Array, \$_Files Array	CO7	L3
4	Reading/Writing Files, PHP Classes and Objects	CO7	L3
5	Object-Oriented Overview, Classes and Objects in PHP	CO7	L3
6	Object Oriented Design	CO7	L3
7	Error Handling and Validation	CO8	L3
8	What are Errors and Exceptions?	CO8	L3
9	PHP Error Reporting	CO8	L3
10	PHP Error and Exception Handling	CO8	L3
С	Application Areas	CO	Leve
1	Develop object oriented concepts in PHP to build web page	CO7	L3
2	Illustrate different Exception and error handling methods in order to validate web		L3
_	page Report small memory management using cookies and URL in web application.		
.	application.		
d	Review Questions	_	-
1	Review Questions	- CO7	- L3
1	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests?	CO7	L3
1 2	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests? Can Apache support the multi-thread mode? Why is thread advantageous?	CO7	L3 L3
1 2 3	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests? Can Apache support the multi-thread mode? Why is thread advantageous? How are parameters passed by reference different than those passed by values?	CO7 CO7	L3 L3 L3
1 2 3 4	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests? Can Apache support the multi-thread mode? Why is thread advantageous? How are parameters passed by reference different than those passed by values? Describe the ASP.NET Framework.	CO7 CO7 CO7	L3 L3 L3
1 2 3 4 5	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests? Can Apache support the multi-thread mode? Why is thread advantageous? How are parameters passed by reference different than those passed by values? Describe the ASP.NET Framework. What is the use of functions in JavaScript? What is embedded JavaScript used? What is the disadvantages of using embedded JavaScript.	CO7 CO7 CO7	L3 L3 L3 L3
1 2 3 4 5	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests? Can Apache support the multi-thread mode? Why is thread advantageous? How are parameters passed by reference different than those passed by values? Describe the ASP.NET Framework. What is the use of functions in JavaScript? What is embedded JavaScript used? What is the disadvantages of using embedded JavaScript. How does one access a particular HTML tag through JavaScript.?	CO7 CO7 CO7 CO7 CO8	L3 L3 L3 L3 L3
1 2 3 4 5	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests? Can Apache support the multi-thread mode? Why is thread advantageous? How are parameters passed by reference different than those passed by values? Describe the ASP.NET Framework. What is the use of functions in JavaScript? What is embedded JavaScript used? What is the disadvantages of using embedded JavaScript.	CO7 CO7 CO7 CO7	L3 L3 L3 L3
1 2 3 4 5 6 7 8	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests? Can Apache support the multi-thread mode? Why is thread advantageous? How are parameters passed by reference different than those passed by values? Describe the ASP.NET Framework. What is the use of functions in JavaScript? What is embedded JavaScript used? What is the disadvantages of using embedded JavaScript. How does one access a particular HTML tag through JavaScript.? Name some common software design layers. How do AJAX requests differ from normal requests in HTTP request-response	CO7 CO7 CO7 CO7 CO8	L3 L3 L3 L3 L3
1 2 3 4 5 6 7 8	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests? Can Apache support the multi-thread mode? Why is thread advantageous? How are parameters passed by reference different than those passed by values? Describe the ASP.NET Framework. What is the use of functions in JavaScript? What is embedded JavaScript used? What is the disadvantages of using embedded JavaScript. How does one access a particular HTML tag through JavaScript.? Name some common software design layers. How do AJAX requests differ from normal requests in HTTP request-response	CO7 CO7 CO7 CO7 CO8	L3 L3 L3 L3 L3
1 2 3 4 5 6 7 8	Review Questions In LAMP stack, what software is responsible for responding to HTTP requests? Can Apache support the multi-thread mode? Why is thread advantageous? How are parameters passed by reference different than those passed by values? Describe the ASP.NET Framework. What is the use of functions in JavaScript? What is embedded JavaScript used? What is the disadvantages of using embedded JavaScript. How does one access a particular HTML tag through JavaScript.? Name some common software design layers. How do AJAX requests differ from normal requests in HTTP request-response loop?	CO7 CO7 CO7 CO7 CO8	L3 L3 L3 L3 L3

E2. CIA EXAM - 2

a. Model Question Paper - 2

Crs Code	ь.	15CS71	Sem:	7	Marks:	30	Time:	75 minute	s			
Cou		Web Techr	Web Technology and Its Application									
-	-				ons, each c	arry equ	ıal marks.	Mark s	CO	Level		
1	а	Identify and technologie	-	escribe at	east four diffe	rent serv	er-side developm	ent 8	CO7	L3		
	b		Describe the difference between the multi-threaded and multi-process setu of PHP in Apache.									
2	а	How does with an exa	lain 8	CO7	L3							
	b	How are pay	arameters	passed by	y reference di	fferent tha	an those passed	by 8	CO7	L3		
3	а	What is em		•	used? What is	s the disa	advantages of us	ing 8	CO8	L3		
	b	How does	one acces	s a particul	ar HTML tag tl	hrough Ja	vaScript.?	8	CO8	L3		
4	а	Name som	e commor	software	design layers.	Explain ea	ach layer.	8	CO8	L3		
	b	Name some common software design layers. Explain each layer. How do AJAX requests differ from normal requests in HTTP reques response loop?							CO8	L3		

b. Assignment – 2

Note: A distinct assignment to be assigned to each student.

				Mo	odel Assignmen	t Questions	3				
Crs C	ode:	15CS71	Sem:	7	Marks:	5 / 10	Time:	90 – 1	20 ı	minutes	3
Cours	se:	Web Ted	chnology and	Its Appli	cation		·				
Note:	Each	student t	o answer 2-3	assignm	ients. Each assi	gnment cai	ries equal ma	rk.			
SNo	No USN Assignment Description							Ма	rk	CO	Level
								S	•		
	1	SIS002,	How do AJA	X requ	ests differ from	normal re	quests in HT	TP		CO7	L3
	1KT16	6IS046	request-response loop?								
2		SIS004, SIS047	What are soft	ware lay	ers, and what b	enefit do th	ney provide?	5	5	CO7	L3
3		SIS006, SIS048	What are son	ne reasc	ons a user might	have Java	Script disable	d.?		CO7	L3
4		SIS007, SIS004			ole typing is u arise from this?		vaScript ? W	hat 5		CO7	L3
	_	61S008, 61S010		dded Ja	vaScript used ?		disadvantage			CO7	L3
6		SIS009, SIS015	Describe how	to valid	late a form in H	ΓML.		5	,	CO7	L3
7		SIS010, SIS021	How does Ph Explain with a		variable names	to be spec	ified at run-tin	ne? 5	,	CO7	L3
8	1KT16IS011, How are parameters passed by reference different than those passed by value?					ose 5	,	CO7	L3		
9		SIS015, SIS035	Identify and development	•	describe at leas	st four diffe	erent server-s	ide 5	,	CO7	L3

10	1KT16IS016,	Describe the difference between the multi-threaded and multi-		CO8	L3
	1KT15IS044	process setup of PHP in Apache.	5		
11	1KT16IS017,	What is a static variable and how does it differ from a regular		CO8	L3
	1KT16IS041	one?	5		
12	1KT16IS018,	What are three access modifiers?	5	CO8	L3
	1KT16IS042		ິນ		
13	1KT16IS023,	Explain the role of an interface in object-oriented programming.	5	CO8	L3
	1KT16IS043				
14	1KT16IS024,	Describe the concept of dynamic dispatching.	5	CO8	L3
	1KT16IS044		_		
15	1KT16IS025	What are the advantages of inheritance?	5	CO8	L3
16	1KT16IS028	What are the three error reporting flags? How are excepted		CO8	L3
		errors different from warnings?	5		
	1KT16IS033	What is the role of error reporting in PHP? How should it differ		CO8	L3
17		for development sites compared to production sites?	5		
18	1KT16IS034	What are the most common ways of reducing validation errors?	5	CO8	L3
19	1KT16IS039	Describe the different error_reporting Constants.	5	CO8	L3
20	1KT16IS040	What problem does spam bots cause.	5	CO8	L3

D3. TEACHING PLAN - 3

Module – 5

Title:	Managing State and Advanced	Appr	10 Hrs		
		Time:			
а	Course Outcomes	-	Bloom		
			S		
-	The student should be able to:	-	Level		
1	Report small memory management using cookies and URL in web application	CO9	L2		
2	Explain the concept of AJAX and Jquery for web services				
b	Course Schedule				
Class	Module Content Covered	CO9,	Level		
No		CO10			
1	Managing State, The Problem of State in Web Applications	CO9	L2		
2	Passing Information via Query Strings,	CO9	L2		
3	Passing Information via the URL Path	CO9	L2		
4	Cookies, Serialization	CO9	L2		
5	Session State, HTML5 Web Storage	CO9	L2		
6	Caching, Advanced JavaScript and jQuery	CO9	L2		
7	JavaScript Pseudo-Classes, jQuery Foundations	CO10	L2		
8	AJAX, Asynchronous FileTransmission, Animation	CO10	L2		
9	Backbone MVC Frameworks, XML Processing and Web Services	CO10	L2		
10	XML Processing, JSON, Overview of Web Services.	CO10	L2		
С	Application Areas	СО	Level		
1	Report small memory management using cookies and URL in web application.	CO10	L2		
2	Explain the concept of AJAX and Jquery for web services.	CO9	L2		
d	Review Questions				
1	How can we pass information in HTTP?	CO9	L1		
2	What are the different types of global web storage objects? What is their purpose?	CO9	L3		

3	How can we pass information in HTTP?	CO9	L2
4	Describe the use of URL rewriting.	CO9	L4
5	What is the difference between session cookies and persistent cookies?	CO9	L2
6	Explain how does the browser know which type of cookie to create?	CO9	L5
	Why are prototypes more efficient than other techniques for creating classes in	CO9	L2
7	JavaScript?		
8	How can an object be instantiated using the concepts of object literals?	CO10	L3
9	What does \$() short stand for in jQuery?	CO10	L4
	What is well-formedness and validity in the context of XML? How do they	CO10	L1
10	different?		
	What are the in-memory and the event approaches to XML processing? How do	CO10	L4
11	they differ?		
е	Experiences	-	-
1			
2			

E3. CIA EXAM – 3

a. Model Question Paper - 3

Crs Code	e:L3	15CS71	Sem:	7	Marks:	30	Time:	75 minute	S	
Cou	rse:	Web Techn	ology and	Its Applica	ation	<u> </u>				
-	-	Note: Ans	swer any	2 quest	ions, each c	arry equ	ual marks.	Mark s	СО	Level
1	а	What are the purpose?	he differe	nt types o	f global web s	torage ob	jects? What is th	eir 16	CO9	L1
	b	Describe the use of URL rewriting.							CO9	L2
2	а	a Explain how does the browser know which type of cookie to create?							CO10	L2
	b	Why are proin JavaScrip	• •	nore efficie	ent than other t	echniques	s for creating class	es	CO10	L2
3	а	What is well-formedness and validity in the context of XML? How do the different?						16	CO10	L2
	b	What are the		ory and the	e event approa	ches to XI	ML processing? H	ow	CO10	L2
4	а	Why are pro		nore efficie	ent than other t	echniques	s for creating class	ses 16	CO10	L2
	b	How can ar	object be	instantiat	ed using the co	ncepts of	object literals?	16	CO10	L2

b. Assignment – 3

Note: A distinct assignment to be assigned to each student.

	Model Assignment Questions											
Crs Code:	Code: 15CS71 Sem: 7 Marks: 5 / 10 Time: 90 – 120 minutes						S					
Course: Web Technology and Its Application												
Note: Each	student to	answer 2-3	assignments	. Each assig	nment carrie	es equal mark	ζ.					
SNo						Mark	CO	Level				
							s					

2 1KT16IS004, 1KT16IS047 Explain JSON in java script? 5 CO9 3 1KT16IS048 What is the difference between the append() and appendTo() 5 CO9 methods? 4 1KT16IS007, 1KT15IS004 What are two techniques for AJAX file upload? Explain any one. 5 CO9 5 1KT16IS008, 1KT15IS010 What are the commonly used animations in jQuery? 5 CO9 6 1KT16IS009, 1KT15IS015 How would you change the text color of all the <a> tags in 5 CO9 iQuery?	L2
1KT16IS048 methods? 4 1KT16IS007, 1KT15IS004 What are two techniques for AJAX file upload? Explain any one. 5 CO9 5 1KT16IS008, 1KT15IS010 What are the commonly used animations in jQuery? 5 CO9 6 1KT16IS009, How would you change the text color of all the <a> tags in 5 CO9	L2
1KT15IS004 5 1KT16IS008, 1KT15IS010 6 1KT16IS009, How would you change the text color of all the <a> tags in 5 CO9	L2
1KT15IS010 6 1KT16IS009, How would you change the text color of all the <a> tags in 5 CO9	L2
1VT15IS015	L2
	L2
7 1KT16IS010, 1KT15IS021	L2
8 1KT16IS011, 1KT15IS023 How are collections and views useful? 5 CO10	L2
9 1KT16IS015, 1KT15IS035 Write a jquery selector to get all the that contain the word 5 CO10 "hello".	L2
10 1KT16IS016, 1KT15IS044 How can we use ensure jQuery loads, even if the CDN is down? 5 CO10	L2
11 1KT16IS017, 1KT16IS041 What is cross-origin resource sharing(CORS)?Explain. 5 CO10	L2
12 1KT16IS018, 1KT16IS042 Describe the two models for page caching. 5 CO10	L2
13 1KT16IS023, In PHP, how are sessions stored between requests? 5 CO10	L2
14 1KT16IS024, 1KT16IS044 What is the difference between page output caching and application caching?	L2
15 1KT16IS025 Describe the best practices for using persistent cookies. 5 CO10	L2

F. EXAM PREPARATION

1. University Model Question Paper

Course:		Web Technol	ogy and Its A	Application			Month / Year		Dec /2	019
Crs C	ode:	15CS71	Sem:	7	Marks:	80	Time:		180 mi	inutes
-	Not	Answer all FI	VE full quest	ions. All que	estions carry equ	al marks.		Mark	CO	Leve
	е							S		ı
1	а	Briefly explain	n why should	one use XI	HTML over HTML	_		16	CO1	L3
	b		•	•	syntax and an <blockquote></blockquote>	example f	or each		CO1	L3
-	а	Explain all selector forms.							CO2	L3
	b	How lists are nested lists.	e handled in	XHTML? [Design an XHTM	/IL code for i	llustrating		CO2	L3
2	а	What are the	elements us	ed to define	the structure of	an HTML tab	le?	16	C03	L3
	b	Describe the	purpose of a	table caption	on and the table I	heading elem	ents.		C03	L3
-	а	Describe how	/ block-level	elements ar	e different from c	online elemen	ts.	16	CO4	L3
	b	Briefly descril	be the two w	ays to const	ruct multi-columi	n layouts in C	SS.		CO4	L3
3	а		vser plug-in o	different fron	n normal request	ts in the HTTI	⊃ request	16	CO5	L3

	b	Why is embedded javascripts used? What is disadvantage of using embedded javascripts?			L3
	С	What is use of function in javascript.?		CO5	L3
		OR			
-	а	Identify and briefly describe at least four different server-side development technologies.	16	CO6	L3
	b	What are server-side include files? Why are they important in PHP?		CO6	L3
4	а	Can Apache support the multi-thread mode? Why is thread advantageous?	16	CO7	L3
	b	How are parameters passed by reference different than those passed by values?		CO7	L3
		OR			
_	а	How does one access a particular HTML tag through JavaScript.?	16	CO8	L3
	b	Name some common software design layers.		CO8	L3
	С	How do AJAX requests differ from normal requests in HTTP request-response loop?		CO8	L3
5	а	Describe the use of URL rewriting.	16	CO9	L2
	b	What is the difference between session cookies and persistent cookies?		CO9	L2
	С	Explain how does the browser know which type of cookie to create?		CO9	L2
		OR			
	а	How can an object be instantiated using the concepts of object literals?	16	CO10	L2
	b	What does \$() short stand for in jQuery?		CO10	L2
	С	What is well-formedness and validity in the context of XML? How do they different?		C010	L2

2. SEE Important Questions

Cours	se:	Web Techno	ology and Its	Application			Month /	Month / Year		019
Crs C	ode:	15CS71	Sem:	7	Marks:	80	Time:		180 m	inutes
	Not	Answer all F	IVE full quest	tions. All qu	uestions carry equ	al marks.		-	-	
	е									
Mod	Qno.	Important Qu	uestion					Mark	CO	Year
ule								S		
1	1	Explain HTT	P. Explain the).		CO1	2011			
	2	Explain the >	XHTML tags i			CO1	2012			
	3 Explain all selector forms. 4 Explain all controls that are created with the <input/> tag with examples.								CO2	2017
								CO2	2016	
		which are us	sed for text co	llection.						
	5	Explain the o	difference bet	ween HTM	IL and HTML.				CO1	2007
2	1	What are the elements used to define the structure of an HTML table?							CO3	
	2	What are the	two differen	t ways of p	assing information	n via the U	RL.?		CO3	
	3	What is diffe	rence between	en replaced	d inline elements	and non re	eplaced inline		CO3	
		elen	nents.							
	4	In CSS, wha	t does floatin	g an eleme	ent do? How do yo	u float an	element?		CO4	
	5	Briefly descr	ibe the two w	ays to con	struct multi colum	n layouts i	n CSS.		CO4	
3	1	Identify and	briefly descr	ibe at leas	t four different se	erver-side	development	·	CO5	

		technologies.			
	2	Describe the difference between the multi-threaded and multi-process setup of PHP in Apache.		CO5	
	3	What are server side include files? Why are they important in PHP?		CO5	
	4	How does PHP allow variable names to be specified at run-time? Explain with an example.		CO6	
	5	How are parameters passed by reference different than those passed by value?		CO6	
4	1	What is embedded JavaScript used? What is the disadvantages of using embedded JavaScript.	16	CO7	
	2	How does one access a particular HTML tag through JavaScript.?		CO7	
	3	Name some common software design layers. Explain each layer.		CO7	
	4	How do AJAX requests differ from normal requests in HTTP request-response loop?		CO8	
	5	How do AJAX requests differ from normal requests in HTTP request-response loop?		CO8	
5	1	What are the different types of global web storage objects? What is their purpose?	16	CO9	
	2	Describe the use of URL rewriting.		CO9	
	3	What is well-formedness and validity in the context of XML? How do they different?		CO9	
	4	Explain how does the browser know which type of cookie to create?		CO10	
	5	Why are prototypes more efficient than other techniques for creating classes in JavaScript?		CO10	

G. Content to Course Outcomes

1. TLPA Parameters

Table 1: TLPA – Example Course

Мо	Course Content or Syllabus	Content	Blooms'	Final	Identified	Instructio	Assessment
dul	(Split module content into 2 parts which have	Teachin	Learning	Bloo	Action	n	Methods to
e-	similar concepts)	g Hours	Levels	ms'	Verbs for	Methods	Measure
#			for	Level	Learning	for	Learning
			Content			Learning	
Α	В	С	D	E	F	G	Н
	Introduction to HTML, What is HTML and Where did it come from?, HTML Syntax, Semantic Markup, Structure of HTML Documents, Quick Tour of HTML Elements, HTML5 Semantic Structure Elements	-	L2		Action Verb : Apply	Lecture / PPT	Slip Test
	Introduction to CSS, What is CSS, CSS Syntax, Location of Styles, Selectors, The Cascade: How Styles Interact, The Box Model, CSS Text Styling.		L4		Action Verb : Illustrate	Lecture / PPT	Assignment
	HTML Tables and Forms, Introducing Tables, Styling Tables, Introducing Forms, Form Control Elements, Table and Form Accessibility, Microformats,	_	L4		Action Verb : Design	Lecture / PPT	Assignment and Slip Test
1	Advanced CSS: Layout, Normal Flow, Positioning Elements, Floating Elements,		L3		Action Verb :	Lecture / PPT	Assignment

	Constructing Multicolumn Layouts, Approaches to CSS Layout, ResponsiveDesign, CSS Frameworks.				Demonst arte		
3	JavaScript: Client-Side Scripting, What is JavaScript and What can it do?, JavaScript Design Principles, Where does JavaScript Go?, Syntax, JavaScriptObjects, The Document Object Model (DOM), JavaScript Events, Forms,		L3	L3	Action Verb : Develop	Lecture	Slip test
3	Introduction to Server-Side Development with PHP, What is Server-SideDevelopment, A Web Server's Responsibilities, Quick Tour of PHP, ProgramControl, Functions	5	L4	L4	Action Verb : Demonstr ate	and	Assignment
4	PHP Arrays and Superglobals, Arrays, \$_GET and \$_POST Superglobal Arrays, \$_SERVER Array, \$_Files Array, Reading/Writing Files, PHP Classes and Objects, Object-Oriented Overview, Classes and Objects in PHP, Object Oriented Design.	5	L5	L5	Action Verb : Apply	Lecture	Assignment and Slip Test
4	Error Handling and Validation, What are Errors and Exceptions?, PHP Error Reporting, PHP Error and Exception Handling	5	L5	L5	Action Verb : Show	Lecture	Assignment
5	Managing State, The Problem of State in Web Applications, Passing Information 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,	5	L4	L4	Action Verb : Display	Lecture	Assignment
5	AJAX, Asynchronous FileTransmission, Animation, Backbone MVC Frameworks, XML Processing and Web Services, XML Processing, JSON, Overview of Web Services.	5	L6	L6	Action Verb : Explain	Lecture and Tutorial	Assignment

2. Concepts and Outcomes:

Table 2: Concept to Outcome – Example Course

	10 Learning or		Final Concept	Concept Justification		Course Outcome
C	ul Outcome from	Concepts		(What all Learning	(1.Action Verb,	
(e- study of the	from		Happened from the	Knowledge,	
	# Content or	Content		study of Content /	3.Condition /	Student Should be
	Syllabus			Syllabus. A short	Methodology,	able to
				word for learning or	4.Benchmark)	
				outcome)	,	
	4 /	J	K	L	М	N
	1 HTML tags ,	Static /	HTML	Will be able to	Action Verb : Apply	Apply HTML syntax
	properties,	Basic	DOCUMENT	understand and	Knowledge : HTML	and semantics to
	attributes for	HTML	S	and and	Pages	build web page
		Document	· ·	lapply the different	Condition: Static	bana noo pago
		S		sections of Static	Benchmark:NA	
	HTML			Sections of Static		
	documents /			HTML		
	Static HTML					

	01 11 11	Styling	000	Will be able to apply	Action Varb : Illustrat	III
	Styling to	using CSS	CSS	will be able to apply	Knowledge :Styling	Illustrate CSS syntax
	HTML pages	and Box		Styling at different	Condition: CSS	and semantics to
		Model	S	levels(tag,	Benchmark: NA	build web page
	levels and			embedded ,extrenal)		
	understanding			embedded ,extremar)		
	the Space					
	occupied by					
	each element					
	· · ·	Tables, forms of HTML with styling	develop HTML Forms	pages with table ,buttons and text boxes	Action Verb : Design Knowledge : form and tables Condition: Static Benchmark: NA	Design HTML forms to build web page
2	HTML pages	Split the	develop CSS	Demonstrate the	Action Verb :	Demonstrate CSS
	with response	pages with different columns	Forms	pages with responses.	Demonstrate Knowledge : Positioning Condition: NA Benchmark: NA	layout to build web page
	scripting with Javascript and	with Functions and actions	Client-Side Scripting	actions of different tags like input type	Action Verb: Develop Knowledge: HTML tags, Client Side Scripting Condition: JavaScript Benchmark:NA	Develop a client – side javascript scripting to build web page
	Scripting with PHP error	PHP,try catch block , multi thread	Server-Side Scripting	server side scripting with PHP and executing the code even with few errors	Action Verb : Demonstrate Knowledge : Server Side scripting Condition: PHP Benchmark:NA	Demonstrate server – side script using PHP to generate and dilsplay the content dynamically.
4	Array of	and array global	PHP Arrays	concepts of arrays with files and server side scripting	Action Verb : Apply Knowledge : files and arrays Condition: server side scripting Benchmark: NA	Apply object oriented concepts in PHP to build web page
	with reporting	exception	PHP Exception	concepts of Reporting and exceptional handling	Action Verb : Demonstrate Knowledge : SSS and try catch Condition: PHP Benchmark:	Show different Exception and error handling methods in order to validate web page
	applying	on , session managem ent and jQuery	Memory management	management serialization and	Action Verb : Knowledge : Condition: Benchmark:	Report small memory management using cookies and URL in web application

COURSE PLAN - CAY 2019-20

	processing, MVC	JSON, MVC architectur e / Frame work	Classes	Knowledge :	Explain the concept of AJAX and Jquery for web services
	services				