Pre-requisi				L T P J C				
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	te	CSE2004-Database Management System	1 8	Syllabus version				
				v1.0				
Course Obj								
	-	end and analyze the basic concepts of web I	programming and ir	nternet				
	ocols.							
		how the client-server model of Internet prog	-					
3. To d	lemonstr	ates the uses of scripting languages and the	ir limitations.					
F 4 1 C	1 0			_				
Expected C			-1-1 - 4 -					
		ompleting the course the student should be	able to					
		web protocols and web architecture.	intonoctive and dru					
		cript, HTML and CSS effectively to create lient side scripting using JavaScript.	interactive and dyn	anne websites.				
		lications using Java.						
		erver side script using PHP, JSP and Servle	ote.					
		IL based web applications.	λ.					
		lication using recent environment like Node	e JS. Angular JS. JS	SON and AJAX.				
	r <u></u>		,					
Student Le	arning (	<b>Dutcomes (SLO):</b> 2, 5, 6, 17						
		ar understanding of the subject related cond	cepts and of contem	porary issues.				
	_	gn thinking capability	1	1 7				
	6. Having an ability to design a component or a product applying all the relevant standards							
and '	with real	listic constraints						
17. Havi	ing an at	pility to use techniques, skills and modern e	ingineering tools ne	cessary for				
engi	neering j							
Module:1		DDUCTION TO INTERNET		2 hours				
		Networks - Web Protocols — Web Or						
		Servers -Security and Vulnerability-Web Sy	stem Architecture -	– URL - Domain				
Name – Clie	ent-side	and server-side scripting.						
M. 1 1. 2	XX/ED I			4.1				
Module:2		<b>DESIGNING</b> lements, Input types and Media element	c CSS3 Salacte	4 hours				
		orders, Text Effects, Animations, Multiple						
Dackground	is and De	rucis, Text Effects, Annhations, Wuttiple	Column Layout, Os	er mierrace.				
Module:3	CLIE	NT-SIDE PROCESSING AND		7 hours				
		PTING		7 110 411 5				
JavaScript		tion -Functions - Arrays - DOM, Buil	lt-in Objects, Regi	ular Expression,				
-		andling, Validation- AJAX - JQuery.	3 , 2	1				
Module:4	SERV	ER SIDE PROCESSING AND		5 hours				
	SCRII	PTING - PHP						
Introduction	to PHP	7 – Operators – Conditionals – Looping – I	Functions – Arrays	- Date and Time				
Functions -	- String	functions - File Handling - File Upload	ling – Email Basic	es - Email with				
attachments	•							
	<u> </u>							
Module:5		SESSION MANAGEMENT and		3 hours				
	DATA	BASE CONNECTIVITY						
		IySQL Basics – Querying single and multi						

4 hours

Module:6 XML

XML Basics – XSL, XSLT, XML Schema-JSON.

Module:7		APPLICATION	DEVELOPMI	ENT		4 hours				
		USING NODE JS								
Introduction to Node.js- Installing Node.js - Using Events, Listeners, Timers, and Callbacks in										
Node.js – Introduction to Mongo DB- Accessing MongoDB from Node.js.										
Mod	dule:8 Industry Expert Talk				1 hour					
			<b>Total Lecture ho</b>	ours:	30 hours					
Text Book(s)										
1. Paul Deitel, Harvey Deitel, Abbey Deitel, Internet & World Wide Web - How to Program,										
	5th edition, Pearson Education, 2012.									
	Kogent Learning Solutions Inc, Web Technologies Black Book, Dream Tech press, 2013.									
3.		Brad Dayley, Brendan Dayley, and Caleb Dayley, Node.js, MongoDB and Angular Web								
	Development: The definitive guide to using the MEAN stack to build web applications, 2nd									
	Edition, Pearson Education, 2018									
Reference Books										
		y Bassett, Introduction to Ja	<u> </u>			•				
	, , , , , , , , , , , , , , , , , , , ,									
	Hill, 2017									
	Steven Holzener, PHP – The Complete Reference, 1st Edition, Mc-Graw Hill, 2017									
4.	Sandeep Kumar Patel, Developing Responsive Web Applications with AJAX and JQuery,									
Packt Publications, 2014										
Mode of Evaluation: CAT / Assignment / Quiz / FAT / Project / Seminar										
List of Challenging Experiments (Indicative)										
1.		basic tags, HTML forms, t	nal, 4 hours							
		nal and inline Script validation, DOM and Ajax 6 hours								
2.		6 hours								
3.	Java, S	8 hours								
4.	PHP:	8 hours								
	Databases  5. XML 4 hours									
5.	5. XML Total Laboratory Hours									
3.5	urs 30 hours									
Mode of assessment: Project/Activity										
Recommended by Board of Studies 19-11-2018										
App	roved b	y Academic Council	No. 53	Date	13-12-201	8				