

Course Code	18CSE361T	Course Name	WEB PROGRAMMING	Course Category	E	Professional Elective	L	T	P	C
							3	0	0	3

Pre-requisite Courses	Nil	Co-requisite Courses	Nil	Progressive Courses	Nil
Course Offering Department	Computer Science and Engineering		Data Book / Codes/Standards	Nil	

Course Learning Rationale (CLR):		The purpose of learning this course is to:			Learning			Program Learning Outcomes (PLO)																	
CLR-1 :	Web has become ubiquitous in nature				Level of Thinking (Bloom)	1	2	3	Engineering Knowledge	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
CLR-2 :	Organizations have integrated the Internet "seamlessly" into their information systems and the Web offers endless opportunity to do so.					Expected Proficiency (%)					Problem Analysis														
CLR-3 :	This course provides the basic concepts and techniques used to design, develop, and deploy web applications satisfying the requirements in terms of flexibility, availability and scalability.					Expected Attainment (%)						Design & Development													
Course Learning Outcomes (CLO):		At the end of this course, learners will be able to:							Analysis, Design, Research																
CLO-1 :	Understand different internet Technologies, web 2.0 and create a basic website using HTML and Cascading Style Sheets				1	80	70	Modern Tool Usage		H	H		H	H	H	M	L	M	H	M	M	M	H	H	H
CLO-2 :	Design a dynamic web page with validation using JavaScript objects and by applying different event handling mechanisms				1	85	75			Society & Culture	H	H	H	H	H	M	L	M	H	M	M	M	H	H	H
CLO-3 :	Design a server side program using Servlets and JSP				1	75	70		Environment & Sustainability		H	H	H	H	H	M	L	M	H	M	M	M	H	H	H
CLO-4 :	Design a simple web page in PHP, and to present data in XML format.				2	85	80	Ethics			H	H	H	H	H	M	L	M	H	M	M	H	H	H	M
CLO-5 :	Get overviews of java specific web services architecture and to enable rich client presentation using AJAX.				2	85	75			Individual & Team Work	H	H	H	H	H	M	L	M	H	M	M	H	H	H	M
									Communication																
								Project Mgt. & Finance																	
										Life Long Learning															
									PSO - 1																
								PSO - 2																	
										PSO - 3															

Duration (hour)		9	9	9	9	9
S-1	SLO-1	Understanding Internet , Difference between websites and web server	An introduction to JavaScript	Java Servlet Architecture	An introduction to PHP	Introduction to Ajax
	SLO-2	Internet technologies Overview	Java Script Terminologies	Servlet Life Cycle	Using PHP, Variables, Program control	Ajax Client Server Architecture
S-2	SLO-1	Understanding websites and web servers:	Introduction to DOM Model	Form GET and POST actions	Built-in functions	Introduction to XMLHttpRequest Object
	SLO-2	Understanding the difference between internet and	DOM Model	Session Handling ,	Connecting to Database	XMLHttpRequest Object
S-3	SLO-1	Web 2.0: Basics, RIA Rich Internet Applications	Introduction to Objects	Understanding Cookies,	Using Cookies	Introduction to Call Back Methods
	SLO-2	collaborations tools	Built-in objects: Math Object	Installing and Configuring Apache Tomcat Web Server	Regular Expressions	Call Back Methods
S-4	SLO-1	HTML5.0 Introduction	Built-in objects: String Object	Introduction to JSP	Introduction to XML	Introduction to Web Services
	SLO-2	HTML5.0 Elements Headers ,Linking,Images,List	Date Object	Understanding Java Server Pages	Basic XML Concepts	Java web services Basics
S-5	SLO-1	HTML5.0 Elements Tables, Formatting,Frames	Boolean Object	Applications on JSP	Introduction to DTD	Introduction to SOAP
	SLO-2	CSS Introduction	Object Collections	Introduction to JSTL	Document Type Definition	Elements of SOAP
S-6	SLO-1	CSS Types	Regular Expressions	Understanding of JSTL	Introduction to XML	Introduction to WSDL
	SLO-2	CSS : Positioning,Text Flow and Box Model	Examples of Regular Expressions	JSP Standard Tag Library(JSTL)	XML Schema	Creating, Publishing a WSDL
S-7	SLO-1	XHTML Introduction	Exception Handling	Creating HTML forms by embedding JSP code	DOM and Presenting XML	Testing and Describing a Web services(WSDL)
	SLO-2	XHTML Elements:Headers ,Linking,Images,List	Validation	Creating HTML forms by embedding JSP code	XML Parsers	Consuming a web service
S-8	SLO-1	XHTML Elements:Tables, Formatting,Frames	Event Handling Concept	Creating HTML forms by embedding JSP code	XML Validation	Introduction to Database Driven web

	SLO-2	CSS 3 Introduction	Introduction to DHTML	Creating HTML forms by embedding JSP code	XSL Transformation	service from an application Database Driven web service from an application
S-9	SLO-1	CSS 3 Types	DHTML with JavaScript	Lab 6: Creating HTML forms by embedding JSP code	XSLT Transformation	Applications on Database Driven web service
	SLO-2	CSS 3: Positioning, Text Flow and Box Model		Creating HTML forms by embedding JSP code	News Feed (RSS and ATOM)	Applications on Database Driven web service

Learning Resources	1. Deitel, Deitel and Nieto, <i>Internet and World Wide Web : How to Program</i> , 5 <sup>th</sup> Edition, 2012, Prentice Hall,. ISBN-13:978-0-13-215100-9 2. Stephen Wynkoop, <i>Running a perfect website</i> , QUE, 2 <sup>nd</sup> Edition, 2001. ISBN 13: 9780789709448 3. Chris Bates, <i>Web Programming : Building Intranet applications</i> , 3 <sup>rd</sup> Edition, 2009, Wiley Publications,. ISBN 13:9780470017753.	3. Jeffrey C. Jackson, <i>"Web Technologies A computer Science Perspective"</i> , 2011, Pearson, ISBN 9780133001976 4. <a href="https://www.W3Schools.com">https://www.W3Schools.com</a>
--------------------	--	---

Learning Assessment											
	Bloom's Level of Thinking	Continuous Learning Assessment (50% weightage)								Final Examination (50% weightage)	
		CLA – 1 (10%)		CLA – 2 (15%)		CLA – 3 (15%)		CLA – 4 (10%)#			
		Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice
Level 1	Remember	40%	-	30%	-	30%	-	30%	-	30%	-
	Understand										
Level 2	Apply	40%	-	40%	-	40%	-	40%	-	40%	-
	Analyze										
Level 3	Evaluate	20%	-	30%	-	30%	-	30%	-	30%	-
	Create										
	Total	100 %		100 %		100 %		100 %		100%	

# CLA – 4 can be from any combination of these: Assignments, Seminars, Tech Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
		Dr.R.Jebakumar