SCHEME OF COURSE WORK

Course Details:

Course Title	Web Programming										
Course Code	13CT1116	L	T	P	C		4	0	0	3	
Program	B.Tech										
Specialization	Computer Science & Engineering, Information Technology										
Semester	V										
Prerequisites	Prerequisites Object Oriented Programming Through JAVA										
Courses to which it is a prerequisite Middleware Technologies											

Course Outcomes (COs):

1.	Design static and dynamic web pages using HTML and JAVASCRIPT.
2.	Create XML documents.
3.	Develop programs using servlets.
4.	Apply Java Database Connectivity (JDBC) in JSP pages.
5.	Design web pages using AJAX and PHP

Course Outcome Versus Program Outcomes:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO-1		S	M	M					M			
CO-2	S	S		M					M			
CO-3		S		M					M			
CO-4		S	M	M								
CO-5		S		M								

S - Strongly Correlated, M - Moderately Correlated, Blank - No Correlation

Assessment Methods: Assi	gnment/Quiz/Seminars/Mid-Test/End Exam
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Teaching-Learning and Evaluation

WEEK	TOPIC/CONTENTS	COURSE OUTCOMES	SAMPLE QUESTIONS	TEACHING LEARNING STRATEGY	ASSESSMENT METHOD
1	Part 1, Introduction to HTML5: Part 2: New HTML5 Form input Types, Introduction to Cascading Style Sheets	CO - 1	 Explain Table Elements. Describe about forms in HTML5. 	Lecture Discussion	Assignment Quiz Mid-Term Test
2	Part 1: Inline Styles, Embedded Style Sheets,	CO - 1	1. Illustrate different ways of using CSS	Lecture PPT	- I

	Conflicting Styles,		2. Describe about	Discussion	
	Linking External Style		Javascript objects.		
	Sheets				
	Java Script: Introduction		1. Explain about	Lecture	
3	to scripting, Control	CO - 1	different Control	PPT	
3	Structures-I,	CO - 1	Structures available in	Discussion	
	Control Structures-II		java script		
	Java Script: Control		1 Waite the males for a	I	
	Structures-II, Functions, Arrays, Objects		1. Write the rules for a well formed XML	Lecture PPT	
4	XML: Introduction,	CO - 1 & 2	document.	Seminar	
	XML Basics, Structuring		document.	Schillar	Assignment
	Data, XML Namespaces				Quiz
	Document Type				Seminar
	Definitions (DTDs),			τ.,	Mid-Term Test
	W3C XML Schema		1 Cina the second	Lecture	- I
5	Documents, XML	CO - 2	1. Give the usage of XSL	PPT Seminar	
	Vocabularies, Extensible		ASL	Schina	
	Stylesheet Language and				
	XSL Transformations				
	Document Object Model (DOM): Objects and				
	Collections.			Lecture	
6	Overview of JDBC,	CO - 2 & 3	1. Explain about	PPT	
O	JDBC Drivers,	CO - 2 & 3	JDBC drivers.	Discussion	
	Connecting to a				
	Database				
	The Statement				Assignment
	Interfaces, Result Sets,		1. Explain about	Lecture	Quiz
	Using metadata.		tomcat webserver and	PPT	Seminar
7	The Life Cycle of a	CO - 3	testing tomcat.	Discussion	Mid-Term Test - I
	Servlet, Using Tomcat for Servlet				- 1
	Development,				
-	A Simple Servlet, The			Υ	
8	Servlet API, The		1.Write about	Lecture PPT	
	javax.servlet Package	CO - 3	different servlet	Seminar Seminar	
	,Reading Servlet		parameters	Schillar	
	Parameters,				
9	MID TERM EXAM - I &	QUIZ - I			
10	The javax.servlet.http			Lecture	Assignment
10	Package, Handling		1. Explain about	PPT	Quiz
	HTTP Requests and	CO - 3	session tracking in	Discussion	Seminar
	Responses, Cookies,		servlets		Mid-Term Test
	Session Tracking JSP Overview, How JSP				- I
11	Works, A Basic				
	Example, JSP Syntax				
	and Semantics: The JSP			Lecture	Assignment
	Development Model,		1. Describe about JSP	PPT	Quiz
	Components of a JSP	CO - 4	Processing.	Discussion	Seminar Mid-Term Test
	Page: Directives,				- I
	Comments, Expressions,				- 1
	Scriptlets, Declarations,				
	implicit objects,				

	Standard Actions,						
12	Tag Extensions, A Complete Example Expressions, Scriptlets, Expression and Scriptlet Handling by the JSP Container, Implicit Objects and the JSP Environment, Initialization Parameters,	CO - 4	1. Explain how dynamic content is generated in JSPs ?	Lecture PPT Seminar	Assignment Quiz Seminar		
13	Request Dispatching: Anatomy of Request Processing, include Directive, The <jsp:include> Action, Forwarding Requests, RequestDispatcher Object</jsp:include>	CO - 4	1. Describe about Request Dispatching and Request Dispatcher	Lecture PPT Discussion	Mid-Term Test - I		
14	Traditional Web Applications vs. Ajax Applications, Rich Internet Applications (RIAs) with Ajax,History of Ajax, Ajax Example Using the XMLHttpRequest Object,	CO - 5	1. Write the advantages of Ajax. 2. Describe how XMLHttpRequest Object is used in Ajax.	Lecture PPT Discussion			
15	Using XML and the DOM, Creating a Full-Scale Ajax-Enabled Application PHP: Introduction, Simple PHP Program, Converting Between Data Types, Arithmetic Operators,	CO - 5	1. What is PHP and why PHP is needed. 2. Write a PHP script that displays Welcome to PHP.	Lecture PPT Discussion	Assignment Quiz Seminar Mid-Term Test - I		
16	Initializing and Manipulating Arrays, String Comparisons, String Processing with Regular Expressions, Form Processing and Business Logic, Reading from a Database	CO - 5	1. Give the applications of AJAX	Lecture PPT Seminar			
17	MIS TERM TEST - II & QUIZ - II						
18	END SEMESTER EXAM						