

## SCHEME OF COURSE WORK

### Course Details:

<b>Course Title</b>	: Web Programming		
<b>Course Code</b>	: 15CT1118	<b>L T P C</b>	: 4 0 0 3
<b>Program:</b>	: B.Tech.		
<b>Specialization:</b>	: Computer Science & Engineering, Information Technology		
<b>Semester</b>	: V		
<b>Prerequisites</b>	: Object oriented programming Through JAVA		
<b>Courses to which it is a prerequisite</b>	: Middleware Technologies		

### Course Outcomes (COs):

1	Describe and explain the relationship among HTML, XHTML, CSS, JavaScript, XML and other web technologies
2	Create and publish advanced HTML pages with the help of frames, scripting languages, and CSS.
3	Understand and use JavaScript variables, control structures, functions, arrays, and objects. Understand and develop XML Technologies such as XML Schemas, XSLT.
4	Understand and develop Server-Side Programming using Servlets and JSP's.
5	Develop web pages using AJAX and PHP

### CourseOutcome Versus ProgramOutcomes Versus Program Specific Outcomes:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO-1	2		2	2									2	2	
CO-2	3	2	2	2									2	2	
CO-3	2	2	3	3	2								2	3	
CO-4	2	2	2	3	3								2	3	
CO-5	2	3	2	3	2								2	3	

3 - Strongly correlated, 2 - Moderately correlated, 1-Weakly correlated, Blank – No correlation

<b>Assessment Methods:</b>	Assignment /Quiz/ Mid-Test / End Exam
----------------------------	---------------------------------------

### Teaching-Learning and Evaluation

Week	TOPIC / CONTENTS	Course Outcomes	Sample questions	TEACHING-LEARNING STRATEGY	Assessment Method & Schedule
1	Introduction to HTML5, HTML5 common Tags, List, Tables, Images	CO1	1. Explain Table Elements. 2. Describe about forms in HTML5.	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	Assignment
2	HTML5 Form input Types	CO1 & CO2		<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	
3	Cascading Style Sheets	CO2	1. Illustrate different ways of using CSS	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ Discussion</li> </ul>	

4	Introduction to Java Scripts, Control Structures in Javascript. Functions, Arrays, Objects	CO3	2. Describe about Javascript objects.	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ Discussion</li> </ul>	(Week 4 - 6)  Mid-Test 1 & Quiz-1 (Week 9)
5	Introduction to XML and XML Basics, Structuring Data, XML Namespaces, Document Type Definitions (DTDs), W3C XML Schema Documents	CO3	1. Write the rules for a well formed XML document.  2. Give the usage of XSL.	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	Mid-Test 1 & Quiz-1 (Week 9)
6	XML Vocabularies, XSLT, Document Object Model (DOM)	CO3		<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> <li>▫ Discussion</li> </ul>	
7	Overview of JDBC, JDBC Drivers, Connecting to a Database	CO3	1. Explain about JDBC drivers.	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> <li>▫ Discussion</li> </ul>	
8	Statement Interfaces, Result Sets, Using Metadata, The Life Cycle of a Servlet, Using Tomcat for Servlet Development	CO3		<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	
<b>9</b>	<b>Mid-Test 1 &amp; Quiz-1</b>				
10	Simple Servlet, The Servlet API, javax.servlet Package	CO4	1. Explain about tomcat webserver and testing tomcat. 2. Explain about session tracking in servlets	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	Assignment (Week 14 - 16)  Mid-Test 2 & Quiz-2 (Week 18)
11	Reading Servlet Parameters ,javax.servlet.http Package,	CO4		<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	
12	Cookies, Session Tracking	CO4		<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	
13	JSP Overview, How JSP Works , A Basic Example, JSP Syntax	CO4	1. Describe about JSP Processing.	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	
14	Semantics: The JSP Development Model, Components of a JSP Page, Request Dispatching	CO4	1. Explain how dynamic content is generated in JSPs ?	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	
15	Traditional Web Applications vs. Ajax Applications, RIAs with Ajax, Ajax Example Using the XMLHttpRequest Object	CO5	1. What is PHP and why PHP is needed. Write a PHP script that displays Welcome to PHP.	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ PPT</li> </ul>	Mid-Test 2 & Quiz-2 (Week 18)
16	Creating a Full- Scale Ajax-Enabled Application, Introduction, Simple PHP Program	CO5	2. Give the applications of AJAX	<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ Discussion</li> </ul>	
17	Functionalities using PHP, Processing and Business Logic, Reading from a Database	CO5		<ul style="list-style-type: none"> <li>▫ Lecture</li> <li>▫ Discussion</li> </ul>	
<b>18</b>	<b>Mid-Test 2 &amp; Quiz-2</b>				
<b>19/20</b>	<b>END EXAM</b>				