

MIT ADT University		
Third Year of Computer Science and Engineering		
Web Technology Lab		
Teaching Scheme	Credit Scheme	Examination Scheme and Marks
Lecture:		Continues Assessment (PR): 40 Marks End_Semester_Examination (PR): 60 Marks
Prerequisites: <ul style="list-style-type: none"><li>Fundamentals of Programming and Networking</li></ul>		
Companion Course : ---		
Course Objectives: The main objectives of the course are to: <ul style="list-style-type: none"><li>To introduce HTML and CSS language for designing of web pages</li><li>To introduce PHP language for server side scripting</li><li>To introduce Server side programming with Java Servlets and JSP</li><li>To introduce Client side scripting with Javascript and AJAX.</li></ul>		
Course Outcomes: On completion of the course, learner will be able to– Co_1: Develop the modern web pages using the HTML and CSS features with different layouts as per need of applications. Co_2: Use the JavaScript to develop the dynamic web pages. Co_3: Use server side scripting with PHP to generate the web pages dynamically using the database connectivity. Co_4:Develop the modern Web applications using the client and server side technologies and the web design fundamentals		
Course Contents		
Unit I	INTRODUCTION TO WWW, HTML and CSS	
Introduction to web technology, Internet Standards – Introduction to WWW, WWW Architecture , SMTP , POP3 File Transfer Protocol, Overview of HTTP, HTTP request , response , Generation of dynamic web pages ,static web pages. Markup Language (HTML): Introduction to HTML - Formatting and Fonts - Commenting Code – Anchors – Backgrounds – Images – Hyperlinks – Lists – Tables – Frames - HTML Forms. CSS: Introduction; Levels of style sheets; Style specification formats; Selector forms; Property value forms; Font properties; List properties; Color; Alignment of text; Background images.		
*Mapping of Course Outcomes for Unit I	CO1	
Unit II	JAVASCRIPT AND ADVANCED JAVASCRIPT	

Overview of JavaScript, using JS in an HTML (Embedded, External), Data types, Control Structures, Arrays, Functions and Scopes, Events, Objects in JS, DOM: DOM levels, DOM Objects and their properties and methods, Manipulating DOM.		
<a href="#">*Mapping of Course Outcomes for Unit II</a>	CO2	
Unit III	PHP	
PHP: Introduction to PHP, Features, sample code, PHP script working, PHP syntax, conditions & Loops, Functions, String manipulation, Arrays & Functions, Form handling, Cookies & Sessions, using MySQL with PHP, AJAX: Introduction, Working of AJAX, AJAX processing steps, coding AJAX script. Introduction to JSON, LAMP, LEMP.		
<a href="#">*Mapping of Course Outcomes for Unit III</a>	CO3	
Unit IV	JQUERY AND BOOTSTRAP	
JQuery: Introduction to JQuery, Loading JQuery, Selecting elements, changing styles, creating elements, appending elements, removing elements, handling events. Bootstrap: Introduction of Bootstrap, Typography, Tables, Images, Buttons, Grid Structure-Type of columns, Forms, Jumbotron, well, Panel, Navbar, NavTab, Carousel, Responsive Web Page, modal and scrollSpy		
<a href="#">*Mapping of Course Outcomes for Unit IV</a>	CO4	
Unit V	JSP	
Introduction to Server Side technology and TOMCAT, JSP: Introduction to JSP, advantages of JSP over Servlet, elements of JSP page: directives, comments, scripting elements, actions and templates, JDBC Connectivity with JSP, Ruby on rail.		
<a href="#">*Mapping of Course Outcomes for Unit V</a>	CO4	
Learning Resources		
<b>Text Books:</b> <ul style="list-style-type: none"><li>● Programming the World Wide Web – Robert W. Sebesta, 4th Edition, Pearson Education, 2008.</li><li>● Harvey &amp; Paul Deitel &amp; Associates, Harvey Deitel and Abbey Deitel, “Internet and World Wide Web - How To Program”, Fifth Edition, Pearson Education, 2011.</li><li>● Adam Bretz &amp; Colin J Ihrig, —Full Stack Javascript Development with MEAN, SPD, ISBN-13: 978-0992461256</li><li>● Giulio Zambon, — Beginning JSP, JSF and Tomcat, Apress Publication, ISBN-10: 1430246235; ISBN-13: 978-1430246237</li></ul>		
<b>Reference Books:</b> <ul style="list-style-type: none"><li>● Learning PHP, MySQL &amp; JavaScript: With jQuery, CSS &amp; HTML5, Robin Nixon, 5<sup>th</sup> Edition, Oreilly</li></ul>		

@The CO-PO Mapping Matrix

PO/C O	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	PO 10	PO 11	PO 12
CO1												
CO2												
CO3												
CO4												
CO5												

### Lab Experiment List

1	Design a Company Registration Form with CSS styles that includes all of the form tag's features. Show the relevant Form output in a compatible browser
2	<p>a] Create an HTML script for Coffee: shop online web content utilizing HTML tags and CSS capabilities. Use a coffee cup and relevant images to enhance the presentation. Provide a coffee type selection option, as well as a rate for the coffee type pick. Tables should be used whenever possible.</p> <p>b] Create an HTML Script for a Car Service Center utilizing HTML tags and CSS features: Enhance content with numerous car workshop photographs and car accessories, as well as details on various car servicing packages.</p> <p>c] Create an HTML Script for a Flower Shop utilising HTML tags and CSS features: CSS Selectors with Optional Beautification demonstrate output with a variety of floral photos and the available flower stock in the floweriest shop. Provide animation using CSS.</p>

3	<p>Write a JavaScript code to take inputs from user and display that inputs in following pattern</p> <p style="text-align: center;"><i>“Hello ..... Welcome To World of JavaScript”.</i></p> <p>Write a JavaScript code to perform arithmetic operation by taking values from users (Add,Sub, Mul,Div)(1. 4 Button, 2.Dropdown)</p>
4	<p>a] Create one button on every click of button different colors should be applied to background.</p> <p>Create one button on every click of button different images should be applied.</p> <p>b] Declare a Javascript String array of colors say colors = [“Red”, “Green”, “Blue”] Accept a value from the user and add it to the array if the value is not present in the array.</p> <p>c] Write a JavaScript code to apply font color and background color to Heading from dropdown, if font color and background color is same no changes should be reflected.</p> <p>d] Create an array using JavaScript and display the occurrences of a specific character [For example; arr = [‘a’, ‘b’, ‘a’, ‘c’, ‘z’] Output should be occurrences of a is 2]</p>
5	<p>A] Write a Javascript code to append static row to the table on click of button</p> <p>B] Write a Javascript code to append anchor tag that redirects to the new page</p> <p>C] Write a Javascript code to change the color of button with following events</p> <ol style="list-style-type: none"> <li>1.Onmouseover</li> <li>2.Onmouseout</li> <li>3.Onclick</li> </ol> <p>D] Write a Javascript code to change the background color of page onclick of array elements displayed as a list.</p>
6	<p>Write a Javascript to create shopping applications which adds the books in cart, updates the existing books, delete the book and display the same. Create proper UI for the same.</p>

7	<p>A] Write a PHP script to take number from user and print the table of that number.</p> <p>B] Write a PHP script to display numeric, associative and multidimensional array with for each loop.</p>
8	Design a shopping application form with following fields[itemID, itemName, itemQuantity] Write a PHP script to add and display the items.
9	<p>Create the database table with the entries mentioned:</p> <p>[rollNo, studName, studDept, passingYear, classGrades] Grades should be either {First Class, Second Class, Pass}</p> <p>Design the UI as given below and show the appropriate result through PHP script</p> <div style="margin-left: 40px;"> <p>years: <input type="text" value="2014"/></p> <p><input type="radio"/> first class</p> <p><input type="radio"/> second class</p> <p><input type="radio"/> All</p> <p><input type="button" value="display"/></p> </div>
10	Write a JQuery code to give animation to div on click of button.
11	Write a JQuery code to add dynamic element on page on click of button
12	Display a popup on mouse over of link and add two text boxes and button to that popup.
13	Create a form that allows you to select a locale and displays the date in a manner appropriate to the locale using JSP.