

<p align="center"> Savitribai Phule Pune University T.Y.B.Sc. (Computer Science) - Sem - V Course Type:DSEC – II Course Code: CS - 353 Course Title : Web Technologies - I </p>		
Teaching Scheme 03 Lect/ week	No. of Credits 2	Examination Scheme IE : 15 marks UE: 35 marks
Prerequisites HTML basics for form designing		
Course Objectives <ul style="list-style-type: none"> To Design dynamic and interactive Web pages. To Learn Core-PHP, Server Side Scripting Language To Learn PHP-Database handling 		
Course Outcomes On completion of the course, student will be able to– <ul style="list-style-type: none"> Understand how to develop dynamic and interactive Web Page 		
Course Contents		
Chapter 1	Introduction to HTML, HTTP and PHP	10 Lects
Overview of HTML and Basic Tags , Creating Forms ,Tables, HTML5 Semantics. CSS basic concept ,Three ways to use CSS, Box Model, Navigation Bar . Introduction to Web server and Web browser . HTTP basics . PHP Basics: Use of PHP, Lexical structure, Language basics .		
Chapter 2	Function and String	8 Lects
Defining and calling a function Default parameters Variable parameters, Missing parameters Variable function, Anonymous function Types of strings in PHP Printing functions Encoding and escaping Comparing strings Manipulating and searching strings Regular expressions		
Chapter 3	Arrays	6 Lectures
Indexed Vs Associative arrays Identifying elements of an array Storing data in arrays Multidimensional arrays 3.4Extracting multiple values Converting between arrays and variables Traversing arrays Sorting Action on entire array		
Chapter 4	Files and database handling	10 Lectures
Working with files and directories Opening and Closing, Getting information about file, Read/write to file, Splitting name and path from file, Rename and delete files Reading and writing characters in file Reading entire file		

Random access to file data
Getting information on file
Ownership and permissions
Using PHP to access a database
Relational databases and SQL
PEAR DB basics
Advanced database techniques

Chapter 5 Handling email with php

2 Lectures

Email background
Internet mail protocol
Structure of an email message
Sending email and validation of Email_id with php

Reference Books:

1. HTML & CSS: The Complete Reference, Fifth Edition Author: Thomas A. Powell
First published: 01 Jan 2010.
2. Programming PHP By Rasmus Lerdorf and Kevin Tatroe, O'Reilly publication
3. Beginning PHP 5 , Wrox publication
4. PHP web sevice, Wrox publication
5. Mastering PHP , BPB Publication
6. PHP cookbook, O'Reilly publication
7. PHP for Beginners, SPD publication
8. Programming the World Wide Web , Robert W Sebesta(3rd Edition)
9. HTML 5 Black Book : Covers Css3, Javascript, XML, XHTML, Ajax, PHP And JQuery by
Kogent Learning Solutions Inc, Published November 2011 by Dreamtech Press
10. Spurlock Jake, Bootstrap: Responsive Web development. O'Reilly Media, Inc

Ref. Links

11. www.php.net.in
12. www.W3schools.com
13. www.wrox.com
14. <https://coreui.io/docs/layout/grid/#grid-options>
15. <https://www.tutorialrepublic.com/twitter-bootstrap-tutorial/bootstrap-grid-system.php>

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Teaching Scheme 3 Lect / week	No. of Credits 2	Examination Scheme IE : 15 marks UE: 35 marks
Prerequisites <ul style="list-style-type: none"> • HTML5,CSS • Core PHP • Bootstrap framework utility 		
Course Objectives <ul style="list-style-type: none"> • To Learn different technologies used at client Side Scripting Language • To Learn XML and XML parsers. • To One PHP framework for effective design of web application. • To Learn Java Script to program the behavior of web pages. • To Learn AJAX to make our application more dynamic. • Framework has 		
Course Outcomes On completion of the course, student will be able to– <ul style="list-style-type: none"> • Build dynamic website. • Using MVC based framework easy to design and handling the errors in dynamic website. 		
Course Contents		
Chapter 1	Introduction to Web Techniques	6 Lect
Variables Server information Processing forms Setting response headers Maintaining state PHP error handling		
Chapter 2	XML	6 Lect
What is XML? XML document Structure PHP and XML XML parser The document object model The simple XML extension Changing a value with simple XML		
Chapter 3	Java Script and JQuery	10 Lect
Overview of JavaScript Object Orientation and JavaScript Basic Syntax(JS datatypes, JS variables) Primitives, Operations and Expressions Screen Output and keyboard input(Verification and Validation) JS Control statements and JS Functions JavaScript HTML DOM Events(onmouseup, onmousedown, onclick, onload, onmouseover, onmouseout).		

JS Strings and JS String methods JS popup boxes(alert, confirm, prompt). JQuery library , Including jquery library in page JQuery selector , DOM manipulation using jquery		
Chapter 4	AJAX	6 Lect
Introduction of AJAX AJAX web application model AJAX –PHP framework Performing AJAX validation Handling XML data using php and AJAX Connecting database using php and AJAX		
Chapter 5	PHP framework CodeIgniter	8 Lect
CodeIgniter - Overview, Installing CodeIgnite Application Architecture MVC Framework , Basic concept of CodeIgniter, Libraries Working with databases Load external JS and CSS page & redirecting from controller , Adding JS and CSS , Page redirection. Loading dynamic data on page & session management, cookies management		
Reference Books:		
<ol style="list-style-type: none"> 1. Programming PHP By Rasmus Lerdorf and Kevin Tatroe O'Reilly publication 2. Beginning PHP 5, Wrox publication 3. AJAX Black Book Kogent solution 4. Mastering PHP BPB Publication 5. Professional Codeigniter By Thomas Myer ,Wrox Publication, 6. Codeihniter 2 CookBook By Rob Foster ,PACKT Publication , 7. JQuery CookBook, O'reilly Publication. <p>Ref. Links:</p> <ol style="list-style-type: none"> 1. www.php.net.in 2. www.W3schools.com 3. https://www.tutorialspoint.com/codeigniter/index.htm 4. https://api.jquery.com/ 5. http://codeigniter.com/docs 		