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		
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
- 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–
- 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 sevices, 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