



Computer Science Paper III
Web Technologies – I
[Discipline Specific Course-II]

Semester: V Credits: 2 Subject Code: BS52203 Lectures: 36

Course Outcomes:

At the end of this course, the learner will be able to:

- Illustrate how to develop dynamic and interactive Web Page
- Explore Core-PHP, Server Side Scripting Language
- Implement different array and file handling methods for writing programs
- Determine PHP-Database handling concept

Unit 1: Introduction to Web Technology

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- Introduction to HTML, HTTP and PHP
 - Overview of HTML- 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.

Unit 2: Functions, Strings and Array

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- Function and String
 - Functions-Defining and calling a function, Default parameters, Variable parameters, Missing parameters Variable function, Anonymous function
 - Strings-Types of strings in PHP, Printing functions Encoding and escaping Comparing strings, Manipulating and searching strings, Regular expressions

Unit 3: Array and Files

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- Array
 - Indexed Vs Associative arrays
 - Identifying elements of an array Storing data in arrays
 - Multidimensional arrays
 - Extracting multiple values, Converting between arrays and variables, Traversing arrays, Sorting, Action on entire array
- Files and database handling
 - 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

Unit 4: Database and Email handling

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- Database
 - Using PHP to access a database Relational databases and SQL PEAR DB basics Advanced database techniques
- Handling email with php

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Chairperson (HoD)	Ms. Ashwini Kulkarni	



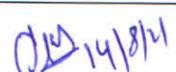
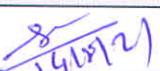
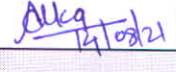
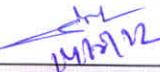
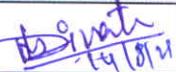
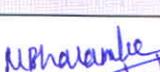
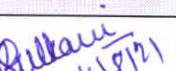
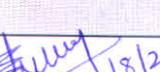
- Email background Internet mail protocol
- Structure of an email message
- Sending email and validation of Email id with php

Recommended Reference Books:

- Adam Trachtenberg, *PHP cookbook*, O'Reilly publication August 2006
- Matt Doyle, *Beginning PHP 5*, Wrox publication 27 October 2009.
- The proficient team at Kogent Solutions, *HTML 5 Black Book*, Dreamtech Press November 2011
- Thomas A., *HTML & CSS: The Complete Reference*, Fifth Edition Powell First 01 Jan 2010.

Websites:

- www.php.net
- www.W3schools.com
- <https://www.tutorialrepublic.com/twitter-bootstrap-tutorial/bootstrap-grid-system.php>

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