



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

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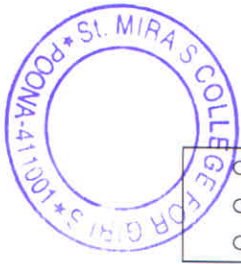
Course Outcomes:

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	10
<ul style="list-style-type: none"> ● Introduction to HTML, HTTP and PHP <ul style="list-style-type: none"> ○ 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	08
<ul style="list-style-type: none"> ● Function and String <ul style="list-style-type: none"> ○ 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	11
<ul style="list-style-type: none"> ● Array <ul style="list-style-type: none"> ○ 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 <ul style="list-style-type: none"> ○ 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	07
<ul style="list-style-type: none"> ● Database <ul style="list-style-type: none"> ○ Using PHP to access a database Relational databases and SQL PEAR DB basics Advanced database techniques ● Handling email with php 	

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<ul style="list-style-type: none"> o Email background Internet mail protocol o Structure of an email message o Sending email and validation of Email_id with php 	
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<p>Recommended Reference Books:</p> <ul style="list-style-type: none"> ● Adam Trachtenberg, <i>PHP cookbook</i>, O'Reilly publication August 2006 ● Matt Doyle, <i>Beginning PHP 5</i>, Wrox publication 27 October 2009. ● The proficient team at Kogent Solutions. <i>HTML 5 Black Book</i>, Dreamtech Press November 2011 ● Thomas A., <i>HTML & CSS: The Complete Reference</i>, Fifth Edition Powell First 01 Jan 2010.

<p>Websites:</p> <ul style="list-style-type: none"> ● www.php.net.in w ● www.W3schools.com ● https://www.tutorialrepublic.com/twitter-bootstrap-tutorial/bootstrap-grid-system.php
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