

SUBJECT: COMPUTER SCIENCE							
SEC-2	BCS-S402	PHP Programming	L	T	P	C	Time for ESE
			2	-	-	2	3 Hrs.
<p>Pre-requisite: Students must have basic knowledge of any text editor like notepad++. Students must also know the background of HTML, Front-End, Back-End & concept of Structure Query Language.</p>							
<p>Course Objectives:</p> <ul style="list-style-type: none"> To help the students getting started with web programming using HTML5, PHP and MySQL. To learn how to build own website. To create dynamic content and user interface. Integrating the front end and backend perspective of the application. 							
<p>Course Outcomes:</p>							
CO1	Learn the environment of Server-Side Script.						
CO2	Compare and contrast between Client-Side Script & Server-Side Script.						
CO3	Learn the use of control structures and numerous native data types with their methods.						
CO4	Make Database connectivity between Front End and Back End.						
CO5	Develop Dynamic Website that can interact with different kinds of Database Languages.						
Course Contents							
UNIT	Contents						Lectures Required
1.	<p>Introduction to PHP: Evolution of PHP & its comparison Interfaces to External systems, Hardware and Software requirements, PHP Scripting. Basic PHP Development, Working of PHP scripts, Basic PHP syntax, PHP data types.</p> <p>Displaying type information: Testing for a specific data type, Changing type with Set type, Operators, Variable manipulation, Dynamic variables and Variable scope.</p>						5
2.	<p>Control Statements: if() and elseif() condition Statement, The switch statement, Using the? Operator, Using the while() Loop, The do while statement, Using the for() Loop.</p> <p>Functions: Creation, Returning values, Library Functions, User-defined functions, Dynamic function, default arguments, Passing arguments to a function by value.</p>						5
3.	<p>String Manipulation: Formatting String for Presentation, Formatting String for Storage, Joining and Splitting String, Comparing String.</p> <p>Array: Anatomy of an Array, Creating index based and Associative array, Looping array using each() and foreach() loop.</p> <p>Forms: Working with Forms, Super global variables, Super global array, Importing user input, Accessing user input, Combine HTML and PHP code, Using hidden fields, Redirecting the user.</p>						8
4.	<p>Working with File and Directories: Understanding file & directory, Opening and closing a file, Coping, renaming and deleting a file, Working with directories, File Uploading & Downloading. Generating Images with PHP: Basics computer Graphics, Creating Image.</p> <p>Database Connectivity with MySql: Connection with MySql Database, Performing basic database operation (DML) (Insert, Delete, Update, Select).</p>						6

Suggested Text Book(s):

1.	Steven Holzner, PHP: The Complete Reference, Tata McGraw Hill.
2.	Kevin Tetroi, Programming PHP, O' Reilly.
3.	Robin Nixon, Learning PHP, MySQL, and JavaScript, Shroff/O'Reilly.

Suggested Reference Book(s):

1.	Alan Forbes, The Joy of PHP Programming: A Beginner's Guide to Programming Interactive Web Applications with PHP and MySQL, Plum Island.
2.	Tom Butler & Kevin Yank, PHP & MySQL Novice to Ninja, SitePoint.

Other Useful Resource(s)

1.	https://www.tutorialspoint.com/php/php_tutorial.pdf
2.	https://www.w3schools.com/php/
3.	https://education.fsu.edu/wp-content/uploads/2015/04/Learning-PHP-MySQLJavaScript-and-CSS-2nd-Edition-1.pdf

Course Outcomes Contributed to Programme Outcomes

PO→ CO↓	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	AVERAG E
CO1	3	3	1	3	3	3	-	3	2.4
CO2	3	3	1	3	3	3	-	3	2.4
CO3	3	3	2	3	3	3	-	2	2.4
CO4	3	3	1	3	3	3	-	3	2.4
CO5	3	3	1	3	3	3	-	2	2.3
AVG.	3.0	3.0	1.2	3.0	3.0	3.0	-	2.6	2.4

Course Outcomes Contributed to Programme Specific Outcomes

PSO→ CO↓	PSO1	PSO2	PSO3	AVERAGE
CO1	3	3	3	3.0
CO2	3	3	3	3.0
CO3	3	3	3	3.0
CO4	3	3	3	3.0
CO5	3	3	3	3.0
AVG.	3.0	3.0	3.0	3.0