

Branch Name:	Computer Engineering / Information Technology
Program Code:	ET404 / ET407
Course Title:	Web programming Using PHP
Course Code:	2ET4040504
Pre-requisite Course:	Basic Knowledge of Computer, Basic Programming.

Course Objectives:

1. Understanding PHP syntax
2. Understanding how PHP works with web servers and how it handles requests and responses.
3. Learning about the basics of creating websites and how PHP fits into the web development process.
4. Learning how to process and retrieve data from HTML forms using PHP.
5. Learning how to connect PHP scripts to databases like MySQL.
6. Understanding how to store and manipulate data using arrays.

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
3	-	4	5	60	40	40	60	200

Course Contents:

Unit No	Topic	Total Hours	Weightage (%)
1	Introduction to PHP 1.1 Introduction to different kinds of Languages Introduction to PHP for Web Development, History and future scope of PHP, state the relationship between PHP, MySQL andApache. 1.2 Installation of Important tools for Working in PHP likeWAMP, XAMPP. 1.3 Structure and Syntax of PHP, PHP variable and its data types,type casting and Garbage value	07	17%
2	Control and Looping structure of PHP 2.1 Control Statements –If Statements, If.....Else Statements, If..If Else Statements ,Nested If Statement, Switch Statement 2.2 Looping Statements- For Loop, While Loop, Do...While Loop,For each loop	07	17%
3	Array and Function 3.1 What is an Array, Types of Array- Numeric array and associated array? 3.2 Multi-dimensional Arrays 3.3 What is a function? Types of Function, return statements, call function 3.4 Function without parameters, Function with parameters, Static Variable, 3.5 Difference between Call By Value and Call By Reference, Built in function 3.6 string function: Chr, ord, strtolower, strlen, strtoupper, ltrim, rtrim, trim, substr, strcmp, strcasecmp, ctrops, strops, stristr, strrev, str_replace, echo,print 3.7 Math functions: Abs, ceil, floor, round, fmod, min, max, pow, sqrt, rand 3.8 Array Function: Count, list, in_array, current, next, previous, end, each, array_merge, array_reverse, sort	10	24%

	3.9 Variable Function: gettype, settype, isset File Function: Fopen/close, fread, fwrite,		
4	Working with Forms 4.1 Important HTML Tags, integration of HTML Tag in PHP 4.2 Super-Global Variable.	07	17%
5	Cookies and Session 4.3 What are Cookies? Create, fetch and Delete cookie. 4.4 Differentiate session and cookie.	05	11%
6	MySQL 6.1 Introduction to MySQL, Database design and Development using mysql 6.2 MySQL commands PHP Connectivity with MySQL 6.3 Updating, Inserting, Deleting records in the MySQL database	06	14%

SUGGESTED LIST OF EXERCISES/PRACTICAL/EXPERIMENTS:

Note: The experiment list provided beneath is for reference only. The course teacher may change/formulate it as per his / her methodology and requirement.

Sr. No	Exercises
1	Install WAMP and XAMP.
2	To demonstrate perform Hello Word in PHP.
3	To demonstrate concept of Operators.
4	To demonstrate various programs to covers looping and conditions structure.
5	To create Programs to perform various operations on arrays.
6	To demonstrate the use of functions in PHP.
7	To create various forms in HTML.
8	To demonstrate PHP GET/POST methods in Forms
9	To create cookies and perform insert, delete and update values.
10	To create session.
11	To demonstrate PHP and MySQL Connectivity.

Text Books: each yourself PHP, MySQL and Apache All in One , 5th Edition By Julie C. Meloni, Pearson.

Reference Books: Beginning PHP and MySQL, 4th Edition By W. Jason Gilmore, Apress, 2010

List of Open-Source Software/learning website:

1. <https://www.w3schools.com/PHP>
2. <https://www.tutorialspoint.com/php/index.html>

Course Learning Outcomes (CLO):

1. Design and develop a Web page using HTML.
2. Style your page using CSS, internal style sheets, and external style sheets.
3. Develop Web page using different form elements.
4. Design and develop a Web site using text, images, links, lists, and tables for presenting web b based content.
5. Create dynamic Website/ Web based Applications. using HTML, PHP, MYSQL database
6. Debug the Programmes by applying concepts and error handling techniques of HTML, PHP, and MYSQL.

Mapping of CLO with PO and PSO

Course Learning Outcomes	Program Outcomes(POs)												Program Specific Outcomes(PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
CLO1	H	L		L										H		
CLO2	M	M		L										M		
CLO3	H	H		M										H		
CLO4	H	M		M										H		
CLO5	H	M		L										H		
CLO6	H	M		L										M		

H:High, M:Medium, L:Low