

Subject Code: 1ET4040504	Subject Title: Web programming Using PHP
Pre-Requisite	Basic Knowledge of Computer, Basic Programming.

RATIONALE:

One of the most common types of dynamic web pages is the database driven type. Common Applications of such technology are online banking, ticket/hotels booking sites, E-Commerce and online transaction processing systems etc.

PHP is a powerful tool for making dynamic and interactive database driven web pages. PHP is the widely-used as efficient open source technology alternative to competitors. The goal of the language is to allow web developers to write dynamically generated pages quickly. This course covers basic concepts for developing interactive web based applications; including HTML, server side scripting, user interface design considerations, and system integration considerations and PHP with MYSQL database. Students will learn integration of HTML, PHP with MYSQL database to develop web based applications. Overall the students will gain the experience in designing and implementing working prototypes of web pages, web sites, and interactive dynamic web-based applications. The course will also be useful as prerequisite to forthcoming web development subjects.

COURSE OBJECTIVE:

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

DETAILS OF COURSE CONTENTS:

Sr.No	Topic	Total Hours	Weightage (%)
Unit - I	Introduction to PHP 1.1 Introduction to different kinds of Languages 1.2 Introduction to PHP for Web Development, History and future scope of PHP, state the relationship between PHP, MySQL and Apache 1.3 Installation of Important tools for Working in PHP like WAMP, XAMPP. 1.4 Structure and Syntax of PHP, PHP variable and its data types, type casting and Garbage value	07	17%
Unit - II	Control and Looping structure of PHP 2.1 Control Statements- If Statement, If.....Else Statement, If...If Else Statement, Nested If Statement, Switch Statement 2.2 Looping Statements- For Loop, While Loop, Do...While Loop, For each Loop	07	17%

Unit - III	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 statement, How to call a function, Function without parameters, Function with parameters, Static Variable, Difference between Call By Value and Call By Reference, 3.4 Built in function: 3.5 string function: Chr, ord, strtolower, strlen, strtoupper, ltrim, rtrim, trim, substr, strcmp, strcasecmp, ctrops, strops, stristr, strrev, str_replace, echo, print 3.6 Math functions: Abs, ceil, floor, round, fmod, min, max, pow, sqrt, rand 3.7 Array Function: Count, list, in_array, current, next, previous, end, each, array_merge, array_reverse, sort 3.8 Variable Function: gettype, settype, isset 3.9 File Function: Fopen, fread, fwrite, fclose	10	24%
Unit - IV	Working with Forms 4.1 Important HTML Tags, integration of HTML Tag in PHP 4.2 Super-Global Variable, GET, POST, isset(), isempty()	07	17%
Unit -V	Cookies and Session 5.1 What are Cookies? Create, fetch and Delete cookie. 5.2 Differentiate session and cookie.	05	11%
Unit -VI	MySQL 6.1 Introduction to MySQL, Database design and Development using MySql, 6.2 MySQL commands 6.3 PHP Connectivity with MySQL 6.4 Updating, Inserting, Deleting records in the MySQL database	06	14%

COURSE OUTCOMES:

The theory should be taught and practical should be carried out in such a manner that students are able to acquire different learning outcomes in cognitive, psychomotor and affective domain to demonstrate following course outcomes.

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

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.

LIST OF REFERENCES:

Reference Books:

1. Beginning PHP and MySQL, 4th Edition
By W. Jason Gilmore, Apress, 2010
2. Teach yourself PHP, MySQL and Apache All in One , 5th Edition
By Julie C. Meloni, Pearson

E-Resource / Web Links:

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