Part A Introduction				
Program: Under Gradu	ate Course	ILyear	- ar- coedistr	Session: 2022-23
	A THE REST OF			
Course Code	V2- COS-WEBT			
Course Title	Web Development using PHP & MySQL			
Course Type	Vocational			
Pre-requisite (if any)	Level-1 course- V1-COS-WEBT (Web Designing)			
Course Learning outcomes (CLO)	 After completion of course, students will be able to - Discover how the web works, what makes web sites work. Implement simple and impressive design techniques, from basics to advanced – so as to focus on goal oriented and user centric designs. Use Server Side Scripting. Implement concept of data persistence. Apply skills to program logic using PHP and handle data using MySQL. Develop dynamic websites using PHP & MySQL. Job Role - Web Designer / Front End & Back End Developer/ Creative Ad 			
Expected Job Role / career opportunities	Designer. Job Description Hypertext developing other web their work Career O Typical er So IT Sp La Al Se	Preprocessor g and coding services. PHF integrates into pportunities mployers of we oftware compare consultancies pecialist web durge corporate ny organisation elf-employmen	developers write server (PHP) scripting language back-end components are developers also assist to the application. The developers and designates organisations at that uses computer systems of the applications at that uses computer systems organisations are the applications of the applications of the applications organisations of the applications of the applicati	er-side web applications using uages. They are tasked with and connecting applications to front-end developers to ensure ners are –
Credit Value	Vacancie	2	(Theory) + 2 (Practic	cal) = 04
Citati varac	D		ent of the Course	
			-1 Hr / P-1 Lab Hr (=2	

Total No. of Lectures/ Practical: L-30 /P-30 (60 Hrs)



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Module	Topics	No. of lectures (Total 30)
I	BASICS OF PHP: Introduction to PHP, PHP features, installation of XAMPP/WAMP, Benefits of using PHP MYSQL, Server Client Environment, Web Browser, Web Server Installation & Configuration Files. OOPs with PHP, language basics, syntax, comments, variables, constants and data types, expressions and operators, flow control statements, looping structures, Arrays Including html code in PHP, Embedding PHP in web pages.	6
п	FUNCTIONS & STRINGS in PHP: Defining a function, Calling a function, variable scope, function parameters, return values, User Defined Function, System Defined Function, Parameterized Function, Date & Time Function, Hash Function, Mail Function, predefined functions. Strings: Creating & accessing string, searching and replacing strings, encoding and escaping, comparing strings, formatting strings, regular expression.	6
m	Data & File Handling: PHP Forms: \$_GET, \$_POST, \$_REQUEST, \$_FILES, \$_SERVER, \$GLOBALS, \$_ENV, input/output controls, validation, Cookies and Sessions. File Handling: File and directory, open, close, read, write, append, delete, uploading and downloading files. File exists, File Size, Rename. Reading and display all/selected files present in a directory.	
IV	MySQL an Overview: Introduction, What is a Database, Understanding an RDBMS, Tables, Record & Fields, SQL Language. Working with phpmyadmin: Creating and using a database, Selecting a database, creating/dropping a table, loading data into a table, Retrieving information from a table, selecting all data, selecting particular rows, selecting particular columns, writing queries, sorting, date, calculations, working with NULL values, pattern matching, counting rows, using more than one tables, using table and column aliases.	
V	MySQL DATABASES IN PHP: Introduction, connecting to a MySQL database, querying the database, Retrieving and displaying the results, modifying data and deleting data through front end. Designing applications using PHP & MySQL.	

	Descriped No. of
	NO. OIL
	Practical No. 01
	Fractical
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(02 Hours each)

30

- Write a PHP script to demonstrate arithmetic operators, comparison operator, and logical operator.
- 3. Write PHP Script to input marks, generate result and display grade.
- Write PHP Script for addition of two 2x2 matrices.
- 5. Write PHP script to obtain factorial of a number using function
- Write PHP script to demonstrate string, date and math function.
- Create student registration form using text box, check box, radio button, select, submit button. And display user inserted value in new PHP page.
- 8. Write two different PHP script to demonstrate passing variables through a URL.
- 9. Write two different PHP script to demonstrate passing variables with sessions.
- 10. Write PHP script to demonstrate passing variables with cookies.
- 11. Write a program to keep track of how many times a visitor has loaded the page.
- 12. Write PHP script to demonstrate exceptional handling.
- 13. Write a PHP script to connect MySQL server from your website.
- 14. Create EMP table with emp_no, emp_name, designation and salary. Write a program to read employee information from EMP table and display all this information in php page.
- 15. Create customer table in mysql with cust_no, cust_name, item_purchased, and mob no, insert 10 records into it.
- 16. Write a program to read customer information from customer table and display all these information in table format on php page.
- 17. Deign a web form in php to input values for the customer record and insert the record in customer table as a tuple.
- 18. Design an "update" web form to edit name of customer to "Bob" with cust_no =1
- 19. Design a "delete" web form to delete record with cust_no=3.
- 20. Create a dynamic web site using PHP and MySQL.

Project/ Field trip:

Part C-Learning Resources

Text Books, Reference Books, Other resources

1. Head First PHP & MySQL, Lynn Beighley & Michael Morrison, O'Reilly



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- 2. PHP: A Beginner's Guide, Vikram Vaswani, McGraw-Hill Edition
- 3. Learning PHP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly
- 4. PHP and MySQL Web Development, Luke Welling, Addison-Wesley
- 5. The Joy of PHP, Alan Forbes, BeakCheck LLC
- 6. Learning PHP, MySQL, JavaScript, & CSS: A Step-by-Step Guide to Creating Dynamic Websites, Robin Nixon, O'Reilly

Suggested equivalent online courses: e-reading:

- 1. https://onlinecourses.swayam2.ac.in/aic20_sp32/preview
- 2. https://www.udemy.com/course/php-mysql-tutorial/
- 3. https://www.udemy.com/course/php-mysql-course-for-absolute-beginners/
- 4. https://www.simplilearn.com/learn-php-basics-free-course-skillup
- 5. https://www.coursera.org/learn/web-applications-php

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