GANPAT UNIVERSITY

FACULTY OF COMPUTER APPLICATIONS

Programme	Master of Computer Applications	**Branch/Spec.**	Computer Application
Semester	III	**Version**	1.0.0.2
Effective from Academic Year	2023-24	**Effective for the batch Admitted in**	June 2022
Subject Code	P13A2WTD	**Subject Name**	Web Technologies Development using PHP

Teaching scheme						**Examination scheme (Marks)**			
(Per week)	**Lecture (DT)**		**Practical (Lab.)**		**Total**		**CE**	**SEE**	**Total**
	L	TU	P	TW					
Credit	2	0	2	0	4	Theory	40	60	100
Hours	2	0	4	0	6	Practical	20	30	50

Objective:

- To develop a deep understanding of PHP and laravel framework.

Pre-requisites:

- Basic Knowledge of HTML, CSS and programming language.

Course Outcomes :

- **1 = Slight (Low); 2 = Moderate (Medium); 3 = Substantial (High); "-" = No Correlation**

Name of CO	**Description**
CO1	Apply PHP fundamentals to build dynamic web page.
CO2	Analyze advanced OOP concepts to develop secure PHP application.
CO3	Evaluate database operations to integrate PHP with MySQL using PDO.
CO4	Create full-stack web applications using the Laravel MVC framework.

Mapping of CO and PO

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
CO1	3	2	1	2	1	-	-	1
CO2	3	3	2	3	1	-	1	1
CO3	2	3	2	3	1	1	1	1
CO4	2	3	3	3	2	2	1	2

Content:

Unit	**Section-I**	**Hrs**

1	**Introduction to PHP** PHP features, Data types, Control statement, Loop, PHP Arrays, PHP Form Handling, Include Function, Require Function, calling user define function.	5
2	**Advanced PHP** PHP OOP, Classes/Objects, Constructor, Destructor, Access Modifiers, Inheritance, Constants, Abstract Classes, Interfaces, Traits, Static Methods, Static Properties, Namespaces, Iterables PHP File handling functions, Session and Cookies function, PHP with Ajax, Exception, File Upload	10
	Section-II	
3	**PHP and MySQL Database** connection with MySQL Database, performing basic database operation (DML) (Insert, Delete, Update, Select) using PDO	5
4	**Laravel MVC Framework** Introduction to MVC Framework, Introduction to Laravel, Laravel Installation process, Application structure, Configuration, Middleware, Controllers, Creating HTML forms and validations in Laravel, working with database in Laravel, Understanding CRUD operations	10

Practical Content:

List of programs specified by the subject teacher based on above mentioned topics.

Text Books:

1	PHP 6 and MySQL Bible by Tim Converse and Joyce Park ,Wiley (1 January 2009).

Reference Books:

1	Beginning PHP6, Apache, MySql web Development, by Timothy Boronczyk, Elizabeth Naramore. wrox publication,Wiley (1 January 2009).
2	Beginning PHP and MySQL, by W. Jason Gilmore, Apress,2nd edition (1 January 2006).
3	The Complete Reference PHP, by Steven Holzner, McGraw Hill Education; Raunak php study edition (1 July 2017).

MOOC/Certification Courses:

1	https://in.coursera.org/learn/web-applications-php
2	https://www.udemy.com/course/php-mysql-tutorial/
3	https://www.w3schools.com/php/
4.	https://www.mygreatlearning.com/academy/learn-for-free/courses/php

Question Paper Scheme:

University Examination Duration: 3 Hours

Note for Examiner: -

(I) Questions 1 and 4 are compulsory with no options.

(II) Internal options should be given in questions 2, 3, 5 and 6.

SECTION – I

Q.1 –8 Marks

Q.2 –11 Marks

Q.3 –11 Marks

SECTION - II

Q.4 –8 Marks

Q.5 –11 Marks

Q.6 –11 Marks