

Branch Name:	BCA (Bachelor of Computer Application)
Program Code:	CS101
Course Title :	WEB PROGRAMMING USING PHP
Course Code :	2CS1010503
Pre-requisite Course:	Basic Knowledge of HTML, Java Script and SQL

Course Objective:

This course helps students :

- To understand fundamentals of Open Source Web Based Server Side Programming Technology.
- To develop websites using open source technology PHP and MySQL.

Teaching Scheme(Hours per week)				Evaluation Scheme (Marks)								Total
Lecture	Tutorial	Practical	Credit	Theory				Practical				
				s		Continuous Assessment		University Assessment		Continuous Assessment		
				Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	
4	1	4	7	28	70	12	30	12	30	08	20	150

Subject Contents			
Sr. No.	Topics	Total Hours	Weight (%)
1.	Overview of Web: Introduction to Client side scripting and Server side scripting, Web-Browser, Web- Server, Web Hosting. Introduction of Open Source: Introduction to Open Source, Pros and cons of Open Source, Features of Open Source, Introduction to different open source software (Linux, ERP, CMS). PHP Basics: History of PHP, Features of PHP, Basic Syntax of PHP, Creating & Running PHP Webpage, Data Types, Comments, Defining Variables and Constants, Operators and Expressions, Scope of Variables (local, global, static), Type Casting, including files using include() and require().	9	20
2.	Control Structures: Conditional Statements (If and Switch) Looping Statements (While, For, Do...While, For Each). Working With Array: Creating and using Arrays, Types of an Array (Indexed and Associative Arrays). Working With PHP Functions: User Defined Functions, Variable Functions, Array Functions, and String Functions.	9	20

3.	Object Oriented Programming With PHP: Creating Class and Objects, Accessing Class Members, Visibility of Class Members (Private, Public, Protected), Use of Constructors and Destructors. Inheritance: Introduction of Inheritance, Types of Inheritance. Error and Exception Handling: Types of Errors, Error Handling, Creating Custom Error handler, Exception Handling using Try, Catch and Throw, Creating Custom Exception handler.	10	20
4.	Working With Forms: Creating and Handling HTML Form elements, Sending form data using GET and POST Methods, Receiving Form data using \$_GET, \$_POST and \$_REQUEST variables, Use of Hidden Field, Validating Form Data, Redirecting User, File Uploading, Sending mail. State Management: Working With Cookies: Introduction of Cookie, Setting and Accessing a Cookie, Destroying a Cookie. Working With Session: Introduction of Session, Starting a Session, Use of Session Variable, Destroying Session.	10	20
5.	Database Connectivity With MySQL : Introduction to MySQL and MySQLi, MySQL Data Types, Connection with MySql Database, Database manipulation (INSERT, SELECT, UPDATE, DELETE), MySQLi Functions.	10	20

Course Learning Outcomes:

At the end of this course, the student would be able

- CLO.1 - To have fundamental knowledge on Open Source Web Technology PHP and MYSQL Database.
- CLO.2 - To understand how Open Source Web Technology works.
- CLO.3 - To understand the basic terminology used in designing and developing a website.
- CLO.4 - To create database driven Websites.
- CLO.5 - To choose the appropriate web platform for their web application using PHP.
- CLO.6 - To develop, manage and maintain professional web applications using PHP.

Mapping of CLO , PO And PSO

	PO.1	PO.2	PO.3	PO.4	PO.5	PO.6	PO.7	PO.8	PO.9	PO.10	PO.11	PO.12	PSO.1	PSO.2	PSO.13
CLO.1	L	M		M	M	M			M					M	
CLO.2			L	M	M	L	L		M					L	
CLO.3		M	L	H	M	L	L	L					M		
CLO.4	L	L		M	M	M	L		L					L	
CLO.5	L	L	M	M	M	H	M	M	M	L	H	M	M	M	
CLO.6	L	M	M	H	M	H	M	H	M	L	H	M	H	M	M

List of Text book :

1. The Complete Reference PHP, By Steven Holzner, Tata Mcgraw Hill Education Private Limited
2. Teach Yourself PHP, MySQL and Apache All in One ,By Julie C. Meloni, Pearson Education.

List of Reference book:

1. PHP 5 and MySQL Bible publication
2. Beginning PHP and MySQL From Novice to Professional, By W. Jason Gilmore, Apress.
3. PHP 5 and MySQL Bible, By Tim Converse and Joyce Park with Clark Morgan, Wiley Publishing, Inc.
4. Learning PHP, MySQL, JavaScript, and CSS, By Robin Nixon, O'Reilly Publication Media.

E-Resource / Web Links:

- <https://www.w3schools.com/php/>
- <https://www.tutorialspoint.com/php/>
- <http://php.net/manual/en/manual.php>
- <https://www.javatpoint.com/php-tutorial>
- <https://www.w3resource.com/php/php-home.php>
- <https://www.guru99.com/php-tutorials.html>
- <https://www.tutorialrepublic.com/php-tutorial/>

List of 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.

1. Write a script to display "My First PHP Script" Message.
2. Write a script to perform arithmetic operations.
3. Write a script to demonstrate constant.
4. Write a script to demonstrate the use of indexed arrays and associative arrays.
5. Write a script to demonstrate the use of array functions.
6. Write a script to demonstrate the use of string function.
7. Write a script to demonstrate the use of constructor and destructor.
8. Write a script to implement the concept of inheritance.
9. Write a script to create a simple student registration form.
10. Write a script to create a simple calculator using form.
11. Write a script to prepare a student mark sheet using form.
12. Write a script to validate form data.
13. Write a script to redirect users.
14. Write a script to upload a file.
15. Write a script to send mail.
16. Write a script to demonstrate the use of session.
17. Write a script to demonstrate the use of cookies.
18. Write a script to implement custom error handling.
19. Write a script to demonstrate exception handling using try, catch and throw.
20. Write a script to create a new database.
21. Write a script to create a new table in the database.
22. Write a script to insert records to the table in the database.
23. Write a script to retrieve all records from the table in the database.
24. Write a script to delete and search record from the table in database
25. Write a script to update records to the table in the database.
26. Write a script to implement following tasks:
 - . Registration of users.
 - I. Login of user.
 - II. Modify the details of the user.
 - III. Logout.