

Programme	B.Sc (CA & IT) Honours		Branch	Computer Applications
Semester	V		Version	1.0.0.0
Effective from Academic Year	2026-27		Effective for the batch Admitted in	June-2024
Subject code	U15A2BWD	Subject Name	BASIC WEB PROGRAMMING & DESIGNING	

Teaching scheme					Examination scheme(Marks)				
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CCE	SEE	Total
	L	TU	P	TW					
Credit	2	-	2	-	4	Theory	50	50	100
Hours	2	-	4	-	6				

Objective:

To enable students to create dynamic web pages, handle user input, and apply fundamental programming logic using PHP in a web environment

Pre-requisites:

knowledge of HTML/CSS, basic programming logic

Learning Outcome:

No. of CO	Description
CO1	Understand PHP syntax, data types, control structures, and basic programming logic
CO2	Apply PHP functions, arrays, and string operations for server side scripting
CO3	Develop dynamic and interactive web pages by integrating PHP with HTML and forms
CO4	Implement session management, cookie and error handling
CO5	Connect and interact with MySQL databases to perform

Mapping of CO and PO:

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	2	2	1	1	1	1	1	1	1
CO2	3	3	2	2	2	1	1	1	1	1	1	1
CO3	3	3	3	2	2	1	1	1	1	1	1	1
CO4	3	3	3	2	2	2	1	1	1	1	1	1
CO5	3	3	3	2	2	1	1	1	1	1	1	1

Content:

Unit	Content	Hrs.
1	Introduction to Web and PHP Web architecture: client-server model, Static vs. dynamic websites, Introduction to PHP syntax, Installation of XAMPP/WAMP/LAMP, Writing and running your first PHP script, PHP variables, constants, data types	06
2	Control Structures and Functions Conditional statements: if, else, switch ,Loops: for, while, do-while, foreach, Functions: definition, scope, return types, Parameter passing, recursion, Built-in string, math, and date/time functions Introduction to error handling	06

3	Arrays, Strings, and Form Handling Indexed, associative, and multidimensional arrays, String handling functions, HTML forms, POST vs GET, Form validation and sanitization, File uploads and validations	06
4	File Handling, Sessions, and Cookies Reading and writing files, File permissions and security, Cookies: set, retrieve, delete, Sessions: start, store, destroy, Login/logout functionality using sessions	06
5	Database Connectivity using MYSQL Introduction to MySQL and phpMyAdmin, Connecting to MySQL using MySQLi, Creating databases and tables, CRUD operations, Prepared statements to prevent SQL Injection Simple login system with database integration	06
Practical Content:		
List of programs specified by the subject teacher based on above mentioned topics		
Reference Books:		
1	Beginning PHP and MySQL, 4th Edition, W. Jason GilmoreM, Apress, 2010	
2	Learning PHP, MySQL, JavaScript, CSS & HTML5, Third Edition, Robin Nixon, O'reilly Media, 2014	
3	The Complete Reference PHP 1st edition by Steven Holzner, TATA McGraw-Hill Publication	
Web Reference:		
1	http://www.w3schools.com/PHP	
MOOC/Certificate Course:		
1	https://www.coursera.org/learn/PHP-introduction	
2	https://www.mindluster.com/certificate/1043/php-Basics-for-beginners-video	
3	https://www.mygreatlearning.com/academy/learn-for-free/courses/php-programming	
Question Paper Scheme:		
<p>End Semester Examination Duration: (2 Hours Theory Examination)</p> <p>Note for Examiner: - Q-1 Any Five out of Seven (25 Marks) Q-2 Any Two out of Three (06 Marks) Q-3 Mandatory question (05 Marks) Q-4 Any Two out of Three (08 Marks) Q-5 Any Two out of Three(06 Marks)</p> <p>*The question paper must comprehensively address all Course Outcomes (COs), align with Bloom's Taxonomy levels, and ensure complete syllabus coverage.</p>		