



Full Stack Web Development: Back-End with PHP & MySQL

Course Objectives

1. Master PHP basics: Learn syntax, functions, control structures, and form handling.
2. Connect with MySQL: Use PHP to interact with databases using SQL queries.
3. Build CRUD systems: Create apps with Create, Read, Update, Delete operations.
4. Implement authentication: Use sessions, login systems, and access control.
5. Host live projects: Learn FTP, cPanel, and free hosting options to go live.

Prerequisites

- **Front-End Foundations** or knowledge of HTML, CSS, JavaScript.
- **Logical Thinking:** For writing back-end logic and database queries.
- **Basic Programming** (Recommended): Understanding variables, loops, functions.

Tools & Environment

- **Back-End Language:** PHP (Procedural)
- **Database:** MySQL (via phpMyAdmin)
- **Local Server:** XAMPP / Laragon (for Windows)
- **Editor:** VS Code
- **Deployment Tools:** cPanel, InfinityFree, FileZilla FTP

Module Breakdown

- **Module 1:** Setting up XAMPP & PHP Basics
- **Module 2:** Form Handling using PHP (GET/POST)
- **Module 3:** PHP Control Structures & Functions
- **Module 4:** Introduction to MySQL & phpMyAdmin
- **Module 5:** Performing CRUD with PHP + MySQL
- **Module 6:** Session Management & Login System
- **Module 7:** File Uploads, Validation, and Security Basics
- **Module 8:** Admin Dashboard with Authentication
- **Module 9:** Hosting PHP Projects with cPanel
- **Module 10:** Final Project – Complete CMS or Blog Website

Beyond Objectives Learning

1. Build dynamic websites with server-side scripting in PHP.
2. Store and manage data securely using MySQL databases.
3. Develop login and registration systems with session handling.
4. Deploy real PHP applications on the web using free or paid hosting.



Sr.	Title	Topic	Objective
1	Introduction to PHP	PHP Basics	Understand PHP syntax, variables, and embedding in HTML
2	PHP Operators and Control Structures	PHP Logic	Use conditions, loops, and expressions
3	PHP Functions and Form Handling	PHP Functions	Handle user input and build reusable functions
4	Superglobals: GET, POST, SESSION, COOKIE	Form Handling	Work with request/response data and manage sessions
5	Introduction to MySQL and phpMyAdmin	Database Basics	Learn relational database concepts and access via phpMyAdmin
6	Connecting PHP with MySQL	DB Integration	Perform database connection using mysqli or PDO
7	CRUD Operations: Create & Read	DB Operations	Insert and fetch records using PHP
8	CRUD Operations: Update & Delete	DB Operations	Update and delete records through forms
9	User Authentication System (Login/Signup)	Auth System	Build a secure login/signup system using session management
10	File Upload with Validation	File Handling	Upload and validate image/files via PHP
11	Building a Simple Blog System	CRUD Project	Create posts with add/edit/delete functionality
12	Using Bootstrap with PHP	UI Integration	Integrate Bootstrap with PHP templates
13	Error Handling and Debugging	Debugging	Learn to handle errors, use try-catch, and debug effectively
14	Final Project Planning: Dynamic Web App	Project Planning	Outline a mini full-stack app (e.g., task manager, blog, etc.)
15	Deploying PHP Website (000webhost/XAMPP)	Deployment	Host and test PHP application on local and live servers



Minimum Completion Criteria:

- Complete all modules and MCQs
- Attempt weekly marathons
- Submit at least 2 out of 5 projects in the final level
- Attend minimum 80% of lessons

Certificate Details

- Upon successful completion of the Internship, learners will receive a Government-Recognized Certificate from Vidyawan, a registered MSME enterprise (*Udyam Registration No: UDYAM-WB-14-0205610*).



One Month Internship Certificate



Weekly Marathon Participation Certificate

Performance-Based Badge System

- Gold Badge – For Top Performers (90%+ score, completed 4+ projects)
- Silver Badge – For consistent performance (70–89%)
- Copper/Participant Badge – For all learners who complete the program

Contact Information

For queries, registration, or collaboration, feel free to contact us:

Vidyawan – Internship & Skill Development Platform

(A Government-registered MSME – UDYAM-WB-14-0205610)

- Email: contact.vidyawan@gmail.com
- Website: www.vidyawan.in (Get in touch section)
- Location: West Bengal, India
- Follow us for updates and upcoming internships