

PHP

COURSE CURRICULUM



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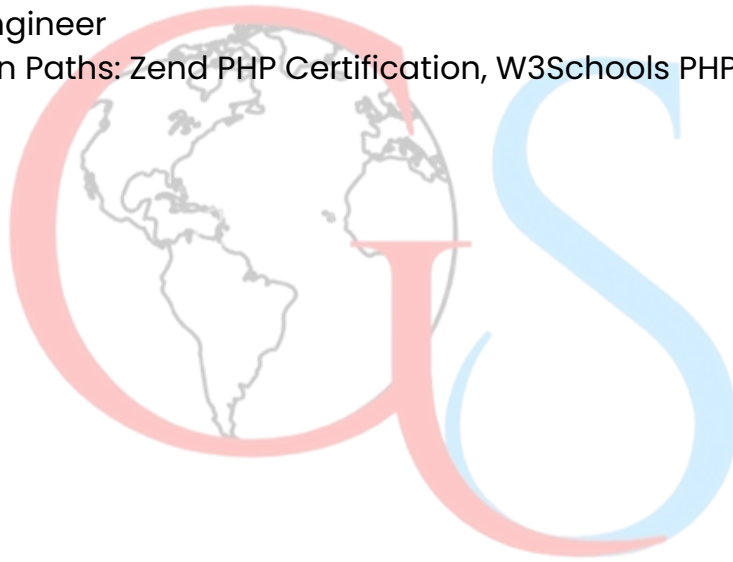
PHP – COURSE CURRICULUM

ROAD MAP

- Master server-side scripting using PHP for dynamic website development
- Ideal for aspiring Web Developers, Backend Engineers, and CMS Developers
- Build real-world web apps using PHP, MySQL, AJAX, and CMS like WordPress, Joomla, Drupal

CAREER PATH

- PHP Developer
- Full-Stack Web Developer
- CMS Specialist (WordPress, Drupal, Joomla)
- Backend Engineer
- Certification Paths: Zend PHP Certification, W3Schools PHP Developer Certificate



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COURSE CONTENT

Module 1: Introduction to PHP

- History and Versions of PHP
- Practical Uses and Power of PHP
- Installing & Configuring Apache and PHP

Module 2: PHP Basics

- Default Syntax and PHP Tag Styles
- Comments and Output Functions
- Data Types and Configuration Settings
- Error Types

Module 3: Variables and Constants

- Declaring Variables & Scope
- Super Global Variables and Variable Variables
- Magic Constants and Pre-defined Constants
- User-defined Constants

Module 4: Control Structures

- Execution Control Statements
- Conditional & Looping Statements (with real-time examples)

Module 5: Functions in PHP

- Creating Functions
- Passing Arguments by Value & Reference
- Recursive Functions

Module 6: Arrays in PHP

- Creating and Traversing Arrays
- Array Functions

Module 7: Include Functions

- include, include_once, require, require_once

Module 8: Regular Expressions

- Validating Inputs (text boxes, emails, phone numbers)
- Custom Regular Expressions

Module 9: Object-Oriented Programming in PHP

- Classes, Objects, Fields, Properties, Methods
- Encapsulation, Inheritance (types), and Polymorphism
- Constructors, Destructors
- Static Members, instanceof, Helper Functions
- Object Cloning, Copy, and Reflection

Module 10: PHP with MySQL

- Introduction to MySQL and Integration
- MySQL Functions and SQL Injection Prevention
- Image Upload/Download in DB
- Registration/Login Forms with Validation
- Paging and Sorting

Module 11: Strings and Regex

- Declaring Strings (Standard & Heredoc)
- String Functions
- POSIX Syntax & PHP Regex Functions

Module 12: Working with Files & OS

- File Functions (Open, Create, Delete)
- Directory Manipulation
- Disk Size Calculation
- Directory Functions

Module 13: Error & Exception Handling

- Error Logging and Configuration
- Exception Handling with try-catch
- Custom Exceptions

Module 14: Date, Time, and Authentication

- Date and Time Functions
- HTTP and PHP Authentication
- Authentication Methodologies

Module 15: Cookies and Sessions

- Purpose & Types of Cookies
- Creating & Accessing Cookies

Module 16: Web Services & XML

- Why Web Services, RSS, SOAP
- Accessing Web Services from PHP
- XML File Generation and Parsing

Module 17: MySQL Concepts

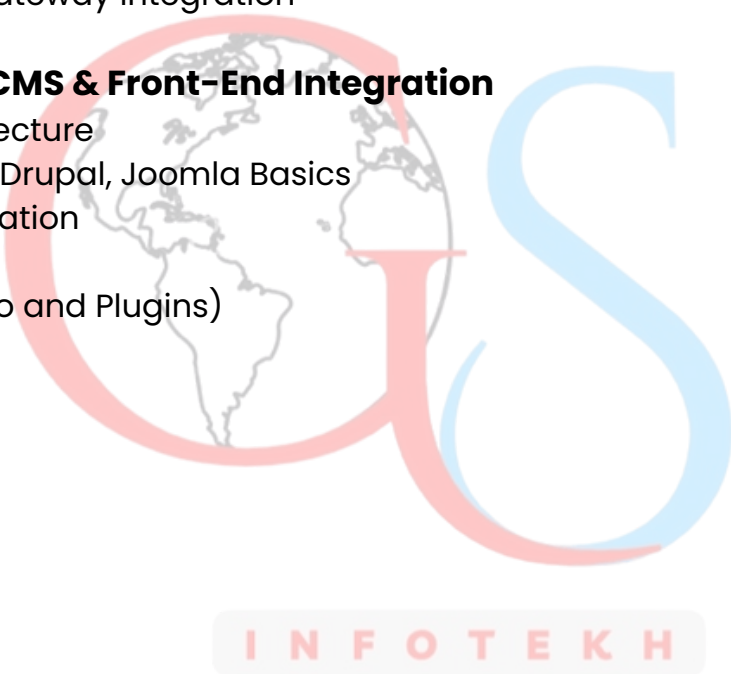
- Storage Engines, Functions, Operators
- Constraints, Joins, Views, Indexing
- DDL, DML, DCL, TCL Commands
- Stored Procedures
- MySQL with PHP and optional SQL Server Integration

Module 18: Special Delivery

- Protocols, HTTP Headers
- Sending Emails (with/without attachment)
- File Upload/Download using Headers
- Chat App using PHP & AJAX
- SMS Gateway Integration
- Payment Gateway Integration

Module 19: CMS & Front-End Integration

- MVC Architecture
- WordPress, Drupal, Joomla Basics
- AJAX Integration
- CSS Styling
- jQuery (Intro and Plugins)



Thank you



Thank You for Going Through Core PHP Curriculum
We hope this guide has provided a clear and structured learning path
to strengthen your skills in PHP.

✦ **NEXT STEPS**

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

 **Need Help or Guidance?**

Feel free to contact our course support team:
Course Coordinator

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