



TECHHUB SOLUTIONS

...be step ahead in your field

PHP Course

Module 1: Introduction to PHP

- Introduction to server-side scripting
 - History of PHP and its evolution
 - Features and advantages of PHP
 - Installing XAMPP/WAMP/LAMP or PHP server
 - PHP syntax and basic structure
 - Creating your first PHP file
 - Understanding PHP tags (`<?php ... ?>`)
 - Running PHP scripts on a local server
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Module 2: PHP Basics

- PHP variables and constants
 - Data types (String, Integer, Float, Boolean, Array, Object)
 - Operators (Arithmetic, Assignment, Comparison, Logical)
 - Comments in PHP
 - Output statements (`echo`, `print`, `print_r`, `var_dump`)
 - Understanding PHP error reporting
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Module 3: PHP Control Structures

- Conditional statements (`if`, `else`, `elseif`, `switch`)
 - Looping (`for`, `while`, `do...while`, `foreach`)
 - Break and continue statements
 - Nested loops and conditions
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Module 4: PHP Functions

- Defining and calling functions
- Function arguments and return values
- Variable scope (Global, Local, Static)

- Built-in PHP functions (string, array, math, date functions)
 - User-defined functions
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Module 5: PHP Arrays

- Indexed arrays
 - Associative arrays
 - Multidimensional arrays
 - Array functions (array_push, array_pop, array_merge, count, sort, rsort, etc.)
 - Looping through arrays
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Module 6: PHP Strings

- String creation and concatenation
 - String functions (strlen, strtoupper, strtolower, str_replace, strpos, substr)
 - Formatting strings
 - Working with special characters
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Module 7: PHP Forms & User Input

- HTML forms with PHP
 - \$_GET and \$_POST methods
 - Form validation
 - Sanitizing and validating user input
 - Handling file uploads
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Module 8: PHP Sessions & Cookies

- Understanding sessions and cookies
 - Creating and destroying sessions
 - Setting, getting, and deleting cookies
 - Session and cookie security tips
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Module 9: PHP File Handling

- Reading from and writing to files
 - File operations (`fopen`, `fclose`, `fread`, `fwrite`, `file_get_contents`, `file_put_contents`)
 - File upload and download
 - Handling directories
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Module 10: PHP Object-Oriented Programming (OOP)

- Classes and objects
 - Properties and methods
 - Constructors and destructors
 - Inheritance, encapsulation, and polymorphism
 - Access modifiers (`public`, `private`, `protected`)
 - Static properties and methods
 - Abstract classes and interfaces
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Module 11: PHP MySQL Integration

- Introduction to MySQL
 - Creating databases and tables
 - Connecting PHP with MySQL using `mysqli` and `PDO`
 - Performing CRUD operations (Create, Read, Update, Delete)
 - Prepared statements and preventing SQL injection
 - Database error handling
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Module 12: PHP Advanced Topics

- Working with JSON and XML
 - Sending emails using PHP (`mail()`)
 - Error handling and exceptions
 - Using PHP filters and regular expressions
 - Introduction to PHP frameworks (Laravel, CodeIgniter)
 - Introduction to RESTful APIs using PHP
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Module 13: PHP Project

- Planning a small PHP project (e.g., Student Management System, Blog System, To-Do App)

- Applying all learned concepts
- Connecting front-end HTML/CSS with PHP backend
- Form validation, database CRUD, sessions, and authentication
- Testing and debugging

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