

PHP & MySQL Course Syllabus

80% Practical training & 20% Theory

Experts Available 24x7 for your queries

30 to 40 Hrs. of training

Trainer Profile

Our Trainers provide complete freedom to the students, to explore the subject and learn based on real-time examples. Our trainers help the candidates in completing their projects and even prepare them for interview questions and answers. Candidates are free to ask any questions at any time.

- More than **7+ Years** of Experience
- Expert level Subject Knowledge and fully up-to-date on real-world industry applications
- Trainers have experienced on multiple real-time projects in their Industries

Learn how to use PHP & MySQL from beginner level to advanced techniques which is taught by experienced working professionals. With our PHP & MySQL Training you'll learn concepts in expert level with practical manner.

Introduction of Web & PHP

- What is PHP?
- The history of PHP
- Why choose PHP?
- Installation overview

First Steps

- Embedding PHP code on a page
- Outputting dynamic text
- The operational trail
- Inserting code comments

Exploring Data Types

- Variables
- Strings
- String functions
- Numbers part one: Integers
- Numbers part two: Floating points
- Arrays
- Associative arrays
- Array functions
- Booleans
- NULL and empty
- Type juggling and casting
- Constants

Control Structures: Logical Expressions

- If statements
- Else and elseif statements
- Logical operators
- Switch statements

Control Structures: Loops

- While loops
- For loops
- Foreach loops
- Continue

- Break
- Understanding array pointers

User-Defined Functions

- Defining functions
- Function arguments
- Returning values from a function
- Multiple return values
- Scope and global variables
- Setting default argument values

Debugging

- Common problems
- Warnings and errors
- Debugging and troubleshooting

Building Web Pages with PHP

- Links and URLs
- Using GET values
- Encoding GET values
- Encoding for HTML
- Including and requiring files
- Modifying headers
- Page redirection
- Output buffering

Working with Forms and Form Data

- Building forms
- Detecting form submissions
- Single-page form processing
- Validating form values
- Problems with validation logic
- Displaying validation errors
- Custom validation functions
- Single-page form with validations

Working with Cookies and Sessions

- Working with cookies

- Setting cookie values
- Reading cookie values
- Unsetting cookie values
- Working with sessions

MySQL Basics

- MySQL introduction
- Creating a database
- Creating a database table
- CRUD in MySQL
- Populating a MySQL database
- Relational database tables
- Populating the relational table

Using PHP to Access MySQL

- Database APIs in PHP
- Connecting to MySQL with PHP
- Retrieving data from MySQL
- Working with retrieved data
- Creating records with PHP
- Updating and deleting records with PHP
- SQL injection
- Escaping strings for MySQL
- Introducing prepared statements

Building a Content Management System (CMS)

- Blueprinting the application
- Building the CMS database
- Establishing your work area
- Creating and styling the first page
- Making page assets reusable
- Connecting the application to the database

Using Site Navigation to Choose Content

- Adding pages to the navigation subjects
- Refactoring the navigation
- Selecting pages from the navigation

- Highlighting the current page
- Moving the navigation to a function

Application CRUD

- Finding a subject in the database
- Refactoring the page selection
- Creating a new subject form
- Processing form values and adding subjects
- Passing data in the session
- Validating form values
- Creating an edit subject form
- Using single-page submission
- Deleting a subject
- Cleaning up
- Assignment: Pages CRUD
- Assignment results: Pages CRUD

Building the Public Area

- The public appearance
- Using a context for conditional code
- Adding a default subject behavior
- The public content area
- Protecting page visibility

Regulating Page Access

- User authentication overview
- Admin CRUD
- Encrypting passwords
- Salting passwords
- Adding password encryption to CMS
- New PHP password functions
- Creating a login system
- Checking for authorization
- Creating a logout page

Advanced PHP Techniques

- Using variable variables

- Applying more array functions
- Building dates and times: Epoch/Unix
- Formatting dates and times: Strings and SQL
- Setting server and request variables
- Establishing the global and static variable scope
- Making a reference assignment
- Using references as function arguments
- Using references as function return values

Introduction to Object-Oriented Programming (OOP)

- Introducing the concept and basics of OOP
- Defining classes
- Defining class methods
- Instantiating a class
- Referencing an instance
- Defining class properties

OOP in Practice

- Understanding class inheritance
- Setting access modifiers
- Using setters and getters
- Working with the static modifier
- Reviewing the scope resolution operator
- Referencing the Parent class
- Using constructors and destructors
- Cloning objects
- Comparing objects

Working with Files and Directories

- File system basics
- Understanding file permissions
- Setting file permissions
- PHP permissions
- Accessing files
- Writing to files
- Deleting files

- Moving the file pointer
- Reading files
- Examining file details
- Working with directories
- Viewing directory content

Sending Emails

- Configuring PHP for the email
- Sending an email with mail()
- Using headers
- Reviewing SMTP
- Using PHPMailer

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