

PHP Certification Course

Course Duration : 45 Days

Topics & Details

Introduction to Programming:

- ★ What is PHP?
 - Server-side scripting language
 - Embedding in HTML
- ★ Setting Up Environment
 - Installing XAMPP/WAMP/MAMP
 - Setting up a local server
 - Writing the first PHP script

Lesson 2: PHP Syntax and Basic Constructs

- ★ Basic Syntax
 - PHP tags (`<?php ... ?>`)
 - Echo and Print statements
- ★ Variables and Data Types
 - Declaring variables
 - Data types: strings, integers, floats, booleans, arrays, objects, NULL
- ★ Operators
 - Arithmetic operators
 - Assignment operators
 - Comparison operators
 - Logical operators

Lesson 3: Control Structures

- ★ Conditional Statement



- If, else, elseif

- Switch

★ Loops

- For loop

- While loop

- Do-while loop

- Foreach loop

Lesson 4: Functions

★ Defining Functions

- Creating functions

- Function arguments

- Return values

★ Built-in Functions

- String functions

- Array functions

- Date and time functions

Lesson 5: Working with Forms

★ Form Handling

- GET vs POST methods

- Retrieving form data

- Validating form data

★ Form Security

- Sanitizing input

- Preventing XSS and CSRF attacks

Lesson 6: Working with Files

★ File Handling



- Reading from a file
- Writing to a file
- File uploads

★ File System Functions

- Checking if a file exists
- Deleting a file
- Directory functions

Lesson 7: PHP and Databases

★ Introduction to MySQL

- Setting up a database
- Creating tables

★ Connecting to a Database

- Using `mysqli` or PDO

★ Performing CRUD Operations

- Inserting data
- Reading data
- Updating data
- Deleting data

Lesson 8: Sessions and Cookies

★ Sessions

- Starting a session
- Storing session data
- Destroying a session

★ Cookies

- Setting cookies
- Retrieving cookies



- Deleting cookies

Lesson 9: Error Handling

★ Types of Errors

- Notices
- Warnings
- Fatal errors

★ Error Handling Mechanisms

- Custom error handling
- Using `try`, `catch`, and `finally`

Lesson 10: Object-Oriented Programming (OOP)

★ Classes and Objects

- Defining a class
- Creating objects

★ Properties and Methods

- Class properties
- Class methods
- Constructors and destructors

★ Inheritance

- Extending classes
- Overriding methods

★ Visibility

- Public, private, and protected members

Lesson 11: Advanced Topics

- Namespaces
- Traits



- Anonymous Functions and Closures
- Working with JSON

Lesson 12: Practical Project

- Building a simple web application (e.g., a blog, to-do list, or user management system)
- Applying all learned concepts

