

# PHP Course Contents

PHP (Hypertext Preprocessor) is a popular open-source scripting language mainly used for web development. Embedded within HTML, PHP executes on servers, creating dynamic web pages and interacting with databases. Known for its ease of use and versatility, PHP powers many websites and content management systems, including WordPress, and is widely supported by hosting providers and web servers.

## **An Introduction to HTML & CSS**

- Basic Html concept used in website development
- Creating templates

## **An Introduction to JavaScript & Bootstrap**

- Basic concept used in responsive website development
- Form Validation
- Creating templates

## **An Introduction to PHP**

- History
- Versions and Differences between them
- Practicality
- Power
- Installation and configuring Apache and PHP

## **PHP Basics**

- Default syntax
- Styles of PHP tags
- Comments in PHP
- Output functions in PHP
- Data types in PHP

- Configuration Settings
- Error Types

## **Variables in PHP**

- Variable Declarations
- Variable Scope
- PHP's Super global Variables
- Variable Variables

## **Constants in PHP**

- Magic Constants
- Standard Pre-defined Constants
- Core Pre-defined Languages
- User defined Constants

## **Control Structures**

- Execution Control Statements
- Conditional Statement

## **Functions**

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

## **Arrays**

- What is an Array?
- How to create an Array
- Traversing Arrays
- Array Functions

## **Include Functions**

- Include, Include\_once
- Require, Require\_once

## Regular Expressions

- Validating textboxes, emails, phone number, etc.
- Creating custom regular expressions

## Object Oriented Programming in PHP

- Classes, Objects, Fields, Properties, \_set(), Constants, Methods
- Encapsulation
- Inheritance and types
- Polymorphism
- Constructor and Destructor
- Static Class Members, Instance of Keyword, Helper Functions
- Object Cloning and Copy
- Reflections

## PHP with MySQL

- What is MySQL
- Integration with MySQL
- MySQL functions
- Gmail Data Grid options
- SQL Injection
- Uploading and downloading images in Database
- Registration and Login forms with validations
- Paging, Sorting

## Strings and Regular Expressions

- Declarations styles of String Variables
- Heretic style
- String Functions
- Regular Expression Syntax (POSIX)
- PHP's Regular Expression Functions (POSIX Extended)

## Working with the Files and Operating System

- File Functions
- Open, Create and Delete files

- Create Directories and Manipulate them
- Information about Hard Disk
- Directory Functions
- Calculating File, Directory and Disk Sizes

## **Error and Exception Handling**

- Error Logging
- Configuration Directives
- PHP's Exception Class
- Throw New Exception
- Custom Exceptions

## **Date and Time Functions Authentication**

- HTTP Authentication
- PHP Authentication
- Authentication Methodologies

## **Cookies**

- Why Cookies
- Types of Cookies
- How to Create and Access Cookies

## **Sessions**

- Session Variables
- Creating and Destroying a Session
- Retrieving and Setting the Session ID
- Encoding and Decoding Session Data
- Auto-Login
- Recently Viewed Document Index

## **XML Integration**

- What is XML
- Create a XML file from PHP with Database records
- Reading Information from XML File

## **MySQL Concepts**

- Introduction
- Storage Engines
- Functions
- Operators
- Constraints
- DDL commands
- DML Commands
- DCL Command
- TCL Commands
- Views
- Joins
- Cursors
- Indexing
- Stored Procedures
- MySQL with PHP Programming
- MySQL with SQL server(Optional)

### **SPECIAL DELIVERY**

- Protocols
- HTTP Headers and types
- Sending Mails using PHP
- Email with Attachment
- File Uploading and Downloading using Headers
- Implementing Chatting Applications using PHP
- And Ajax
- SMS Gateways and sending SMS to Mobiles
- Payments gateways and How to integrate them
- Web services in PHP

### **JQuery & WordPress Framework**

- E-Commerce Website Development