

# PHP LANGUAGE COURSE

## (CODING SYLLABUS)

### Course Overview

PHP is a widely-used general-purpose scripting language that is especially suited for Web development and can be embedded into HTML.

**Duration:** 45 Days

### Job Prospects

PHP is known to be one of the most popular programming languages. It offers several career opportunities as well. Every year, the demand for PHP developer's increases. And this is also one of the reasons why PHP is one of the most popular programming languages known.

### Job Profiles

- Desktop Application Development.
- Web Development Careers.
- Compiler Based Applications.
- Computer Programming.
- Command-line Scripting.
- Server-side Scripting.
- Database Concepts.

### Course Content

#### Hyper Text Markup Language (HTML)

- Introduction to HTML
- Structure of HTML
- Attributes & Values
- Comments, Header Tags
- Image Tag
- Link Tags (Text & Image)
- Marquee Tag
- List Tag (Ordered & Unordered)
- Table Tag
- Form Tags
- Audio, Video Tags
- About Iframe
- Embedding of Google Maps

#### JavaScript (JS)

- Introduction to JavaScript
- Variable, Operators, Conditions
- Looping and Array
- Introduction to functions
- Popup Boxes (Alert, Confirm, Prompt)
- Form Handling
- DOM Manipulation
- Pre- defined functions
- Client Side Validation (Regular Expression)

## Introduction to PHP

- Web Architecture
- Overview of PHP Platform
- Origins of PHP in the open source community
- Why we use PHP?
- Some of PHP's strengths:
- Some of PHP's main competitors are PERL, Microsoft ASP.NET, JavaServer Page
- Availability across multiple platforms
- Installing as a module for Apache Web Server

## PHP language building blocks

- Comparing PHP with other Web scripting languages or technology
- Installation of PHP
- PHP delimiters
- Variable initialization with PHP
- PHP Data types
- PHP Constants
- PHP Operators

## Conditional Statements

- If else
- If else if else
- Nested If
- Switch Case
- Jump Statements ( Break , Continue , Exit )

## Looping (Iteration)

- For loop
- While loop
- Do while loop
- Nested Loop

## Introducing ARRAY

- How to use an important programming construct: arrays
- Numerically Indexed arrays
- Non-Numerically Indexed arrays (Associative Array)
- Multidimensional arrays
- Array sorting

## Manipulation user input

- Presenting the user with input options via different HTML form elements
- Retrieving form data with \$\_POST, \$\_GET and \$\_REQUEST arrays
- Preserving Data in Form inputs

## Reusing Code and Functions

- Introducing Functions
- Defining functions
- Using parameters
- Understanding scope
- Returning values
- Call By Value & Call By reference
- Using Require() and include()
- Array , String , Math , Date functions

### **File Uploading & Downloading**

- File uploading Concepts
- Multiple File Upload
- Downloading file from server using header.

### **String Manipulation and Regular Expression**

- Formatting , Joining ,splitting , comparing strings
- Introducing Regular Expression

### **State Management**

- Session, Cookie , Query String
- Understanding Basic Session Functionality
- Starting a Session
- Registering Session variables
- Using Session Variables
- Destroying the variables and Session
- What is a Cookie?
- Setting Cookies with PHP
- Using Cookies with Sessions
- Deleting Cookies
- Implementing Query String
- Hidden Fields

### **MySQL Database**

- Introduction to DBMS and Mysql
- Web Database Design & Architecture.
- Creating a MySQL Database
- Creating Database Tables
- Column Data Types
- Implementing Insert/Delete/Update and select Query
- Aggregate Functions
- Having and Group By Clause
- Joining Table
- Implementing Keys & Constraint.
- Dropping Tables and Databases

### **Database Connection**

- Mysql database connectivity

### **Advance PHP Techniques**

- PDF Generation
- Excel or CSV Generation
- Implementing Pagination
- Exception Handling