

# CORE PHP



## CURRICULUM

### » What you will Be Able to Achieve During This Course

This course will enable you to build real-world, dynamic web sites. If you've built websites using plain HTML, you realize the limitation of this approach. Static content from a pure HTML website is just that-static. It says the same unless you physically update it. Your users can't interact with the site in any meaningful fashion.

Using PHP language and database MySQL allows you to make our sites dynamic: To have them be customizable and contain real-time information. In this course, we describe how to approach real-world projects and take you through design planning and building e-commerce based projects. Using this course you are able to develop projects like:

- User authentication and personalization
- Shopping Carts
- Content-management Systems
- Web based email
- Mailing list manager
- Web forums
- PDF document generation, etc...

### » Who Should Attend

These are creating dynamic, database-driven web sites. Basic experience with HTML is assumed. Programming such as C or PERL experience is helpful but not required.

### » Hands-On Training

In this course, you develop PHP scripts to perform a variety of tasks, culminating in the development of a full database-driven Web page. Exercises include:

- Accessing command line arguments from PHP scripts
- Generating web pages dynamically using PHP
- Retrieving Web Pages manipulating from data
- Personalizing Web site content using Session and Cookies
- Tracking user navigation on your Web site
- File handling with PHP script
- Regular Expression with PHP to Make strong validation
- Object Oriented Concept to make more Powerful Web Application
- Exception Handling
- Integrating database content to generate dynamic Web pages
- Building modular Scripts to enable code reusability

### » Introductory Session **1 Hrs.**

- 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

### » **Hyper Text Markup Language (HTML)** **3 Hrs.**

- 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 , You tube videos
- Block Level and Inline Elements
- DIV Tag

### » **HTML5 New Tags** **1 Hrs.**

- Header , Footer , Nav
- Section , Article , Aside
- New Form Elements

### » **Style Sheet (CSS)** **3 Hrs.**

- Types of style sheet
- About CSS Selectors
- About CSS Properties
- Background Properties
- Box Properties
- Border Properties
- Positioning Properties
- CSS Menu Design
- CSS Animation

### » **Bootstrap (Responsive Design)** **2 Hrs.**

- Introduction to Responsive Design
- Introduction to Bootstrap
- Bootstrap Grid System
- Grid Classes
- Equal Columns , Unequal Columns
- Layout Creation

### » **Creating a Web Layout using Div's , CSS & Bootstrap** **2 Hrs.**

### » **PHP language building blocks** **1 Hrs.**

- 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**      **1 Hrs.**

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

» **Looping (Iteration)**              **2 Hrs.**

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

» **Introducing ARRAY**              **2 Hrs.**

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

» **Manipulation user input**      **1 Hrs.**

- 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**              **3 Hrs.**

- Introducing Functions
- Defining functions
- Using parameters
- Understanding scope
- Returning values
- Call By Value & Call By reference
- Reusing Codes
- Implementing recursion
- Using Require() and include()
- Array , String , Math , Date functions
- Super Global Array Variables

» **JavaScript (JS)**                      **3 Hrs.**

- Introduction to JavaScript
- Variable , Operators , Conditions
- Looping and Array
- Introduction to functions
- Popup Boxes (Alert ,Confirm ,Prompt)
- Introduction to functions
- Form Handling
- DOM Manipulation
- Pre- defined functions
- Introduction to Objects
- What is property and methods
- String , Math , Navigator , Date , Array , Window Objects
- Introductions to object based technology
- Class , object , property , inheritance
- Client Side Validation (Regular Expression)

» **Introducing with the file system and the Server**              **2 Hrs.**

- Saving data for later using file system
- Opening a file Creating and Writing to a file
- Creating and Writing to a file
- Closing a file

- Reading from file
- Deleting a file
- Using other useful file functions
- Create a directory
- Remove a directory

#### » **File Uploading & Downloading** **2 Hrs.**

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

#### » **String Manipulation and Regular Expression** **1 Hrs.**

- Formatting , Joining ,splitting , comparing strings
- Introducing Regular Expression
- REGEX Implementation.

#### » **State Management** **3 Hrs.**

- Session, Cookie , QueryString
- What Session Control is?
- 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

#### » **MySQL Database** **5 Hrs.**

- Relational Database Concept and technology
- Web Database Design
- Web Database 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 Primary key, Unique Key, Composite key, foreign key, default constraint etc.
- Joining Table
- Dropping Tables and Databases
- Introduction to Phpmyadmin

#### **Database Connection** **1 Hrs.**

- » ● Mysql connectivity
- Procedural Connectivity
- Object Oriented Connectivity
- PDO (Php Data Object) Connectivity

#### **Jquery with AJAX** **2 Hrs.**

- » ● jQuery introduction
- jQuery Selectors , events , DOM , animations
- jQuery accordions, carousel, tab
- jQuery conflict
- Ajax Implementation
- CRUD Operation with AJAX

» **Object Oriented PHP** **3 Hrs.**

- Object oriented concepts
- Classes, objects and operations
- Class attributes
- Access Modifier
- Constructor & Destructor
- Inheritance
- Static method
- Type Hinting
- Object Cloning
- Abstract class
- Final keyword
- Inheritance
- Implementing interface
- Understanding Advance and New Object Oriented functionality
- Magic functions with PHP

» **Advance PHP Techniques** **3 Hrs.**

- Implementing Captcha
- PDF Generation
- Excel or CSV Generation
- Email with PHP
- Implementing Pagination
- SQL Injection
- Web Services with JSON
- Payment Gateway Integration
- Http Headers & Output Buffering
- Error tracking and debugging
- Exception Handling

**Web Hosting** **1 Hrs.**

- »
- Manage Domain with name server
  - Manage Web Hosting from FTP and CPANEL
  - Managing Database, Email Accounts, Sub Domains etc.
  - Live your project.

» **Developing a dynamic web application** **7 Hrs.**

- Frontend Using Bootstrap & templates
- Backend Using Templates



**Corporate Office**

Baba Mohan Ram  
Hospital, Building Shop  
No. 6 Kuleshra, GR.  
NOIDA. (U.P.) 201306

**Branch Office**

SH 13/139-P Tarna Bazar,  
Shivpur, Varanasi (U.P.)  
INDIA. 221003

**Branch Office**

B 74 3<sup>rd</sup> Floor Patrakar Puram  
Colony Gate No – A1 Front of  
Tahsil Bhojubeer, Varanasi  
221002

E-mail: [info@spvaig.com](mailto:info@spvaig.com)

Visit us: [www.spvaig.com](http://www.spvaig.com)