

PHP 6-Weeks

## INTRODUCTION TO PHP

- What is Web?
- Introduction to PHP for Web Development & Web Applications
- History & Future Scope of PHP
- Benefit & Importance of PHP in web applications
- Installation of tools for working in PHP like XAMPP, WAMP for PHP, Apache & MySQL

## LANGUAGE BASICS

- Introduction to Language constructs like Variables:
- Naming Variables
- Assigning and Displaying Variable Values
- Creating variables
- Displaying variable values
- Writing Your First Script That Uses Variables
- Using Variable Variables
- Removing Variables
- Understanding Data Types
- Assigning data types
- Type casting
- Type Juggling
- Introduction of PHP Keywords
- Comments, Operators & Expressions :( Arithmetic, Assignment, Comparison, Logical Operators)
- String & echo, print for outputting in web page: string functions
- Working with flow control through Control Statement: if-else, if-else ladder.
- Using Loop Statement like for, for each, do while, while, switch case, go to, and continue.

## ARRAYS

- What is an Array?
- Creating and Working with Arrays
- Creating arrays
- Viewing arrays
- Modifying arrays
- Removing values from arrays
- Sorting Arrays
- Walking through an Array
- Traversing an array manually
- Using foreach to walk through an array
- Finding Array Size
- Converting Arrays into Strings (And Vice Versa)
- Converting Variables into Arrays (And Vice Versa)
- Splitting and Merging Arrays
- Exchanging keys and values
- Multidimensional Arrays
- Creating multidimensional arrays
- Viewing multidimensional arrays
- Using multidimensional arrays in statements
- Walking through a multidimensional array
- Built-in PHP Arrays

## PHP FUNCTIONS

- Defining functions
- Using variables in functions
- Passing values to a function
- Returning a value from a function
- Using built-in functions
- Defining User functions
- Passing parameter(Call By Value & Call By Reference) & return value
- Trends of PHP Functions(Missing Parameter, Formal parameter declaration)
- Importing content of one page into another(include & require)

## **ERROR & EXCEPTION HANDLING**

- Introduction to Exception handling: Using Try/catch/throw
- Creating Custom exception

## **OBJECT ORIENTED PROGRAMMING**

- Classes, Object & Constructor & Destructor
- Introducing Object-Oriented Programming
- Objects and classes
- Properties
- Methods
- Object-oriented concepts PHP 5
- Developing an Object-Oriented Program
- Using objects
- Selecting properties and methods for each object
- Defining a Class
- Using \$this
- Adding methods
- Destroying Objects
- Using Access Specifier (public, private & protected)
- Encapsulation, Inheritance, Abstraction
- Abstract Class, Interface, Traits
- Magic Methods

## **FILES INPUT/OUTPUT**

- File Streams(Input, Output, Temp)
- Creating and deleting a file.
- Reading and writing test files.
- Checking for existence of file.
- Determining file size.
- Opening a file for writing, reading or appending.
- Writing data to the file.
- Reading characters.

## **PHP FORMS**

- GET / POST / REQUEST
- Using html controls in web page
- Master/Child Page Concept

## **MYSQL DATABASE CONNECTION**

- Creating Database & Tables/ privileges /creating users
- Using Database Queries for accessing & manipulating data from database
- Opening Database Connection/closing database connection
- Select/Insert/delete & Update Database from forms

## **STATE MANAGEMENT**

- The anatomy of a cookie.
- Setting a cookie with PHP.
- Deleting a cookie
- Working with the query string
- Creating query string.
- What is session.
- Starting a session.
- Working with session variables.
- Destroying session
- Passing session Ids.
- Query String

## **CONTROLS WITH DATABASE CONNECTION**

- Submitting & showing data to/from web controls from/to database
- Uploading files to server/ upload form /upload script
- Sending emails/ email script

## **CodeIgniter (FRAMEWORK)**

- Introduction to MVC structure
- Discussion of Code Igniter PHP framework
- OOPs programming in Code Igniter

- Controllers
- Reserved Names
- Views
- Models
- Helpers
- Using CodeIgniter Libraries
- Creating Your Own Libraries
- Using CodeIgniter Drivers
- Creating Your Own Drivers
- Creating Core Classes
- Hooks - Extending the Core
- Auto-loading Resources
- Common Functions
- URI Routing
- Error Handling
- Caching
- Profiling Your Application
- Security

## **JOOMLA**

- Joomla installation
- Adding a new Article
- Working on Article Manager
- Working on Category Manager
- Working on Menu Manager
- Working on Media Manager
- Working on Module Manager
- Working on Extension Manager
- Working on User Manager
- Working on Language Manager
- Working on Template Manager
- Working on PlugIn Manager
- Working on Global Configuration
- Customization of existing component and modules,
- Detail discussion of component, module, plug-in,
- How to create component in Joomla.



**Project work is mandatory after the completion of the training program.**

