

Duration: 70Hrs.

Overview

PHP stands for PHP Hypertext Pre-processor. PHP is an HTML-embedded scripting language and much of its syntax is taken from C, Java and Perl with a couple of unique PHP-specific features thrown in. The purpose of the language is to allow web developers to write dynamically generated pages quickly. PHP is open source code which is free to download and use and supports many databases like MySQL, Informix, Oracle, Sybase, Solid, PostgreSQL, Generic ODBC, etc. WordPress is a free and open-source blogging tool and a content management system (CMS) based on PHP and MySQL. WordPress was used by more than 23.3% of the top 10 million websites. It is one of the most popular blogging tools on the web, making it easy for anybody to post their ideas, pictures, and audio/video. WordPress can be used for not only blogging posts but also to store static information that can be easily updated like a content management system (CMS).

Course Objective

This 70 hours training program will help the learner understand the basics of scripting which allows developers for creating advance programs which can be easily integrated with web pages. On completion of the training, participants will be able to build dynamic and user interactive web pages with the help of PHP with MySQL, Setting up and managing a web presence using WordPress as a content management system.

Prerequisite

No experience is required however basic understanding of HTML will be an added advantage.

Learning Content

Topics	Sub Topics
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
PHP Basics	Basic Syntax
	Data Types
	Type Juggling
	Variables

	User defined variables and built in variables
	Super Global Variables
	Declaring and Using constants
	Understanding Operators and Precedence
	Evaluating Expressions
	Making decision with if, else and switch
	Advantage of iteration using while ,do and for loops
	Comments with PHP
PHP with function	Defining User functions
	Passing parameter & return value
	Use of Math functions
	String functions
	Date & time function
	Date formats
	Include
Require	
PHP with Web Design	Use of HTML for web design purpose
	HTML scripts and Form's element
	Embedding PHP in HTML
	Redirecting web pages
	Adding dynamic content
	Supper global Variable
Interact with server using GUI	
Introduction to Array	How to use an important programming construct:arrays
	Numerically indexed arrays
	Non-Numerically Indexed arrays
	Array operators
	Multidimensional arrays
	Array sorting
	Array Functions
Converting Array to Scalar Variable	
Working with String	Formatting string
	Joining & Splitting string
	Comparing string
	Array conversion into String
	Matching & replacing sub string with string function
	Introducing regular expression
	Matching & replacing sub string with regular expression
Oops Concept	Object oriented concepts
	Classes, objects and operations
	Class attributes
	Per-class constants
	Class method invocation

	Access Modifier
	Static method
	Type hinting
	Object cloning
	Abstract class
	Final keyword
	Inheritance
	Implementing Interface
	Understanding Advance and New Object
	Implementing Iterators and Iterations
	Magic functions with PHP
Exception Handling	Exception Handling concepts
	Exception control structures try...catch...throw
	The Exception class
	User define Exceptions
Working with files	Saving data for later using File System
	Opening a File
	Creating and Writing to a file
	Closing, Deleting a file
	Reading from file
	Using other useful file functions
	Creating & Removing Directory
Uploading and Downloading file	
State Management	Using Session in web pages for user authentication
	Understanding Basic Session functionality
	What is a Cookie?
	Setting Cookies with PHP
	Using Cookies with Sessions
	Deleting Cookies
	Starting a Session
	Registering Session Variables
	Using Session Variables
	Destroying the Session Variables and Session
MySQL Database and SQL	Relational Database Concept and technology
	Web Database Design
	Web Database Architecture
	Creating MySQL Database
	Setting up users and privileges
	Creating Database Tables
	Column Data Types
	What is SQL?
	Implementing Insert/Delete/Update and select Query
Advanced PHP	Introduction of SMTP and FTP function

Techniques	Math Function
	PDF Generation
	E-mail with PHP
	PHP Configuring File
	Error tracking and debugging
Java Script and CSS	Introduction to java script
	Validating form using java script
	Implementing CSS to give a better look to web application
Ajax(Asynchronous JavaScript and XML)	Introduction to AJAX
	Introduction to XMLHttpRequest Object
	Method and Properties of XMLHttpRequest
	Implementation of Ajax techniques on webpages
WordPress	
Introduction to wordpress	Introduce Ourselves and Backgrounds
	What is WordPress?
	WordPress.com vs. WordPress.org
Logging in and Customizing WordPress	Logging into WordPress
	Dashboard
	Creating a Profile
	General Settings
Creating a Post	Difference Between Posts and Pages
	Creating a Post
	Adding Hyperlinks
	Using Categories and Tags
	Previewing and Editing Posts
Creating a Page	Creating a Page
	Previewing and Editing Pages
	Page Hierarchy Comments
	Discussion Settings
	Askimet
	Managing Comments
Adding and Managing Media Files	Adding Photos into Posts and Pages
	Embedding Videos into Posts and Pages
	Managing Media Files
Appearance	What Are Themes?
	Installing and Activating a New Theme
	Live Preview
	Creating a Menu
	Custom Header Image
	Custom Background Image
	Widgets
Plugins	What Are Plugins
	Installed Plugins?

	Searching for Plugins
	Installing Plugins
Users	Roles and Capabilities
	Add a New User
Security and Maintenance	Backing Up WordPress
	Restoring WordPress
	Updating WordPress, Themes and Plugins
Resources	WordPress.org
	Stack Overflow
	Authors of Themes and Plugins
