

## PHP Course Contents

### 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
- Datatypes in PHP
- Configuration Settings
- Error Types

### Variables in PHP

- Variable Declarations
- Variable Scope
- PHP's Superglobal 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
- Heredoc 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 Sqlserver(Optional)

## SPECIAL DELIVERY

- Protocols
- HTTP Headers and types
- Sending Mails using PHP
- Email with Attachment
- File Uploading and Downloading using Headers
- Implementing Chating 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