

## **PHP Course Content:35-40hours**

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### Course Outline

#### **PHP Introduction and Installation**

- Introduction PHP and MySQL
- Server Side Technologies
- PHP MySQL Environment
- Installation of XAMPP
- Configuration of Apache / PHP
- Common Errors in Installation
- Using the Dreamweaver for PHP

#### **HTML Concepts**

- Introduction to HTML
- HTML Tags
- HTML Form Tags
- Creating Forms with HTML

#### **PHP Programming Concepts**

- First PHP Program
- Introduction to Variables
- Using Variables
- SuperGlobal Variables
- Understanding Data Types
- Using Operators
- Writing Statements and Comments
- Conditional Statements in PHP
- Switch() Statement
- Using the for() Loop
- Using the while() Loop
- Using the do while () Loop
- Using the foreach () Loop
- Working with Arrays
- Processing Arrays with Loops
- Grouping Form Selections with Arrays

### **PHP Functions**

- PHP Functions
- User-Defined Functions
- Predefined Functions
- General Functions
- String Functions
- Mail Functions
- File Functions
- Array Functions
- Date / Time Functions
- Session Functions
- Cookie Functions

### **PHP Programs**

- Working with Forms
- File Uploads using PHP
- Creating Mails
- Working with Files
- Working with Sessions
- Working with Cookies
- User Authentication Program
- Working with Date and Time
- Creating a Simple Gallery Page

### **Introduction to MySQL Database**

- Understanding an Databases
- Relational Database (RDBMS)
- Tables, Records, and Fields
- Primary and Foreign Keys
- What is SQL ?
- MySQL Command-Line Client

### **Working with Databases and Tables**

- Using PHPMyAdmin
- Creating Databases / Tables
- Specifying Data Types
- Adding Keys
- Altering Tables
- Altering Table and Field Names
- Altering Field Properties
- Adding and Removing Fields and Keys
- Altering Table Types

- BackUp and Restore of Databases and Tables
- Dropping Databases and Tables
- Viewing Database, Table, and Field Information

### Using SQL to Perform Queries

- SQL Concepts
- Inserting Records
- Editing and Deleting Records
- Performing Queries
- Retrieving Specific Columns
- Filtering Records with a WHERE Clause
- Using Operators
- Sorting Records and Eliminating Duplicates
- Limiting Results
- Using Built-In Functions
- Grouping Records
- Union / Join Tables
- Using Subqueries
- Using Table and Column Aliases
- User Privileges

### Using PHP with MySQL

- MySQL Functions
- Managing Database Connections
- Performing Queries
- Processing Result Sets
- Pagination Program
- Queries Which Return Data
- Queries That Alter Data
- Delete Records
- Handling Errors

### Validations with JavaScript

- Introduction to Java Script
- Types of Java Scripts
- Variables, operators, loops
- JS Event Handler
- Common Java Scripts
- Using JavaScript in Dreamweaver
- Java Script Validations

### PHP Mini Project

- PHP Project Requirements Analysis

- Designing Database Architecture
- Using a Layout Design
- Working with HTML Forms
- Writing the SQL Statements
- Project code Execution
- Project Testing
- Making the PHP Project Online

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