



## PHP مقدماتی و پیشرفته

مدت دوره: ۴۰ ساعت

پیش نیاز: آشنایی با مفاهیم برنامه نویسی

سرفصل دوره:

### Season 1: (Introduction)

- Introduction
- PHP history, compare versions
- Use PHP and HTML (Embedding PHP code on a page)
- PHP programming tools
- Install XAMPP
- Create first PHP app (Hello World)
- Basic rules

### Season 2: (Data Types)

- Variables
- Strings
- String functions
- Numbers part one: Integers
- Numbers part two: Floating points
- Arrays
- Associative arrays
- Array functions
- Booleans
- NULL and empty

### Season 3: (Logical Expressions and Loops)

- If statements
- Else and elseif statements
- Logical operators
- Switch statements
- While loops
- For loops
- Foreach loops
- Continue
- Break
- Understanding array pointers

#### **Season 4: (Functions and Debugging)**

- Defining functions
- Function arguments
- Returning values from a function
- Multiple return values
- Scope and global variables
- Setting default argument values
- Common problems
- Warnings and errors
- Debugging and troubleshooting

#### **Season 5: (Forms and pass variables / Ajax)**

- Links and URLs
- Using GET/POST values
- Encoding GET/POST values
- Encoding for HTML
- Including and requiring files
- Modifying headers
- Page redirection
- Building forms
- Detecting form submissions
- Single-page form processing
- Validating form values
- Problems with validation logic
- Displaying validation errors
- Custom validation functions
- Single-page form with validations
- Using XML/JSON in PHP

#### **Season 6: (Cookies and Sessions/ MySQL Basics)**

- Working with cookies
- Setting cookie values
- Reading cookie values
- Unsetting cookie values
- Working with sessions
- MySQL introduction
- Creating a database
- Creating a database table
- CRUD in MySQL
- Populating a MySQL database

- Relational database tables
- Populating the relational table

#### **Season 7: (Advance PHP/MySQL)**

- Database APIs in PHP
- Connecting to MySQL with PHP
- Retrieving data from MySQL
- Working with retrieved data
- Creating records with PHP
- Updating and deleting records with PHP
- SQL injection
- Escaping strings for MySQL
- Introducing prepared statements

#### **Season 8: (Object-Oriented Programming (OOP))**

- Introducing the concept and basics of OOP
- Defining classes
- Defining class methods
- Instantiating a class
- Referencing an instance
- Defining class properties
- Understanding class inheritance
- Setting access modifiers
- Using setters and getters
- Working with the static modifier
- Reviewing the scope resolution operator
- Referencing the Parent class
- Using constructors and destructors
- Cloning objects
- Comparing objects

#### **Season 9: (Working with Files in PHP / Create CMS basic)**

- File system basics
- Understanding file permissions
- Setting file permissions
- PHP permissions
- Accessing files
- Writing to files

- Deleting files
- Moving the file pointer
- Reading files
- Examining file details
- Working with directories
- Viewing directory content
- Review previous sessions by creating Basic CMS

#### **Season 10: (Creating advance CMS / review previous Sessions)**

- Check application security
- Introduction Yii (PHP framework)
- Install / use / developing in Yii
- Generate application by Yii generator (Gii)

#### **Requirements:**

- HTML / JavaScript( basic )
- Understanding the basic concepts of programing

#### **Introduction to PHP Training Course Goals:**

Learning PHP/MySQL programing tools

Learning PHP/MySQL programing from basic level to advance levels

Create Stable/Secure web application in business-level

Install and develop one of the High levels PHP frameworks (Yii)

#### **Case Study:**

Create normal CMS by PHP/MySQL/Ajax