

# Syllabus for PHP with Web Development



## Course Duration for PHP with Web Development Course

- 12 weeks

## Objective For PHP with Web Development Course

- To become a Professional Web Designer and Developer
- To enable the students to become employable

## Eligibility for PHP with Web Development Course

- Any Technical Graduates or Undergraduate (BSc, BCS, BCA, BE, B Tech, MSc, MCS, MCA, M Tech)

## Course overview For PHP with Web Development

### PHP

#### Introduction of PHP

- What is PHP?
- Characteristics of PHP
- Applications of PHP
- Creating Script in PHP
- Executing and Debugging PHP Scripts

#### PHP Data Types

- Scalar types
- Compound types
- Special types

#### PHP Operators

- Arithmetic Operators
- String Operators
- Assignment Operators
- Comparison Operators
- Logical Operators
- Bitwise Operators

#### PHP Loops

- For Loop
- While loop
- Do while loop
- Foreach loop

#### PHP Functions

- Types of PHP Functions
- Creating a PHP Function
- Calling a PHP Function

#### PHP Arrays

- Creating an Array
- Indexed Arrays
- Associative Arrays
- Multidimensional Arrays
- Sorting Arrays

## PHP Decision Making Statements

- Decision making using if statement
- Types of if...else block
- Switch statement

## PHP Form Handling

- Creating forms in PHP
- GET Vs. POST

## PHP Form Validation

- Client side Validation
- Server side Validation

## PHP Strings

- Built in String Handling Functions
- Regular Expressions
- POSIX Regular Expressions
- PERL Style Regular Expressions

## PHP File Cookies

- The Anatomy of a Cookie
- Setting Cookies with PHP
- Create/Retrieve a Cookie
- Updating Cookie
- Deleting Cookie

## PHP Sessions

- Starting a PHP session
- PHP Session Variable Values
- Turning on auto session
- Update PHP session variable
- Destroying a PHP session

## PHP Filters

- PHP Filter Extension
- PHP Filter Functions
- PHP Predefined Filter Constants

## PHP File Handling

- Reading a File
- Writing to a File

## PHP Exception Handling

- Different error handling methods
- Simple statements
- Custom errors and error triggers
- Error reporting
- Creating a Exception handler
- Creating a Exception class
- Multiple Exceptions

## PHP XML Parser

- Tree-based Parsers
- Event -based parsers

## PHP - AJAX

- Introduction of AJAX
- AJAX database
- AJAX XML

## Introduction of MySQL Database

- Relational Database Concepts
- Tables, rows, columns, values, keys, schemas, relationships.

## Creating MySQL Database

## Creating MySQL Table

## Inserting Delete, Updating Data

## Grouping and Aggregating Data

## Retrieving data from MySQL

- Retrieving data with Specific Criteria
- Retrieving data from Multiple tables
- Retrieving data in a particular order

## Shell Commands

## Advanced MySQL Programming

- Transactions
- Stored Procedures

## Web Development with HTML5

### HTML 5

- HTTP basics, web server and web browser
- Getting started with Web page
- Element and attributes in HTML 5
- HTML5 Tags
- Forms API
- HTML5 Canvas
- HTML5 Semantic
- Introduction to Scalable Vector Graphics
- Geolocation
- Structure of a Web page
- Difference between HTML and HTML5

### BootStrap

- Typography
- Tables
- Dropdown
- Grids

### jQuery

- jQuery Syntax
- jQuery Selectors
- jQuery Effects
- jQuery HTML

### Cascading Style Sheet (CSS3)

- Introduction to CSS3
- Types of Classes and Selectors
- Use of classes in CSS color properties

### XML

- Introduction to XML
- XML Elements
- XML Validator
- Embedding XML into HTML

### JavaScripts

- Introduction of JavaScript
- JavaScript Elements
- JavaScript Statements
- JavaScript Operators
- JavaScript Functions
- JavaScript Forms

### CMS – WordPress and Joomla

- Introduction to CMS-WordPress
- WordPress site
- Finding and adding templates to a new site
- Introduction, features and benefits to JOOMLA
- Application of CMS

## Project

Student will be assigned a project which they will have to complete under the careful guidance of the faculty