

## Php and MySql Syllabus

### **Introduction**

- The Origin of PHP
- PHP is better than Its alternatives
- Interfaces to External systems
- Hardware and Software requirements
- What a PHP Script Looks Like
- Web Designing Basics and WYSIWYG Editor
- Receiving User Input
- Repeating Code

### **Basic PHP Development**

- How PHP scripts work
- Basic PHP syntax
- PHP data types
- Google Caffeine
- displaying type information
- Testing for a specific data type
- Changing type with Set type
- Operators
- Variable manipulation
- Dynamic variables
- Static vs. Dynamic Optimization
- Analytics, Analysis and ROI Concept

### **String Manipulation**

- Formatting String for Presentation
- Formatting String for Storage
- Joining and Splitting String
- Comparing String
- Matching and replace Substring

### **Control Structures**

- If(), else if() and else if condition Statement
- The switch statement
- Using the ? operator
- Using the while() Loop
- The do while statement
- Using the for() Loop
- Breaking out of loops

- Nesting loops
- Summary

## **Functions**

- What a function
- Creating a function
- Returning value from function
- User-defined functions
- Dynamic function calls
- Variable scope
- Accessing variable with the global statement
- Function calls with the static statement
- Setting default values for arguments
- Passing arguments to a function by value
- Passing arguments to a function by reference
- Testing for function existence
- Arrays
- Single-Dimensional Arrays
- Multidimensional Arrays
- Associative arrays
- Accessing arrays
- Getting the size of an array
- Looping through an array
- Looping through an associative array
- Examining arrays
- merging arrays
- Sorting arrays
- Sorting an associative arrays

## **Working With The File System**

- Creating and deleting a file
- Reading and writing text files
- Working with directories in PHP
- Checking for existence of file
- Determining file size
- Opening a file for writing, reading, or appending
- Writing Data to the file
- Reading characters

## **Working With Forms**

- Forms
- Super global variables

- Super global array
- A script to acquire user input
- Importing user input
- Accessing user input
- Combine HTML and PHP code
- Using hidden fields
- Redirecting the user
- File upload and scripts
- Delete a File

### **Working With Regular Expressions**

- The basic regular expressions
- Matching patterns
- Finding matches
- Replace patterns

### **Classes And Objects**

- Object oriented concepts
- Define a class
- Class attributes
- An Object
- Creating an object
- Object properties
- Object methods
- Object constructors and destructors
- Class constants
- Static method
- Class inheritance
- Abstract classes
- Final keyword
- Implementing Interface
- Object serialization
- Understanding Advance and New
- Checking for class and method existence
- Iterators

### **Introduction To Database**

- What is RDBMS technology?
- Introduction to SQL
- Connecting to the MYSQL
- Selecting a database

- Adding data to a table
- Displaying returned data on Web pages
- Finding the number of rows
- Looping through database
- Inserting data
- Deleting data
- Entering and updating data
- Executing multiple queries
- Understanding Primary and Foreign Keys
- Understanding Database Normalization
- Dealing with Dates and Times

### **Cookies**

- What is a Cookie?
- Setting time in a cookie with PHP
- Deleting a cookie
- Creating session cookie
- Working with the query string

### **Session**

- what is session?
- Starting a session
- Registering Session variables
- working with session variables
- destroying session
- passing session Ids
- encoding and decoding session variables
- How to increase session expire time
- How to work session without cookie?

### **Advance PHP techniques**

- Introduction about FTP/SMTP server
- Math functions
- File upload
- File Download
- E-mail with PHP
- PHP configuration file
- Error tacking and debugging

### **JavaScript (Jquery)**

- Introduction to JavaScript
- Form validation using JavaScript

- Email validation using JavaScript
- JQuery

## **XML**

- Introduction to XML and its use.

## **AJAX (Asynchronous JavaScript and XML)**

- Introduction to AJAX
- Introduction to XMLHttpRequest Object
- Method and Properties of XMLHttpRequest
- Application of AJAX in web application

## **PHP Project**

- Project Discussion
- Requirements analysis of Project