PHP Syllabus

An Introduction to PHP

- History of PHP
- 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 Super global 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 Statements
- Looping Statements with Real-time Examples

Functions

- Creating Functions
- Passing Arguments by Value and 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 text boxes, 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
- Pagging, 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

Web Services

- Why Web Services
- RSS Syntax
- SOAP
- How to Access Web Services

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)