

## PHP & MYSQL

### 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 Superglobal 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 Realtime Examples

### Functions

- Creating Functions
- Passing Arguments by Value
- Passing Arguments by 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 textboxes, 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
- Paging, 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)