

PHP Course Material

1) AN INTRODUCTION TO PHP

- History
- Versions and Differences between them Practicality
- Installation and configuring Apache and PHP

2) PHP BASICS

- Default syntax
- Styles of PHP tags
- Comments in PHP
- Output functions in PHP
- Datatypes in PHP
- Error Types

3) VARIABLES IN PHP

- Variable Declarations
- Variable Scope
- PHP's Superglobal Variables

4) CONSTANTS IN PHP

- Magic Constants
- Standard Predefined Constants
- Core Pre-defined Languages
- User defined Constants

5) CONTROL STRUCTURES

- Execution Control Statements
- Conditional Statements
- Looping Statements

6) FUNCTIONS

- Creating Functions
- Passing Arguments by Value
- Passing Arguments by Reference
- Recursive Functions

7) ARRAYS

- What is an Array?
- How to create an Array
- Array Functions
- Traversing Arrays

8) Strings

- What is a string in php?
- String Functions

9) INCLUDE FUNCTIONS

- Include, Include_once
- Require, Require_once

10) REGULAR EXPRESSIONS

- Validating Text Boxes,Emails,Phone Number,Etc
- Creating Custom Regular Expressions

11) 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,
- Abstract and Interface
- Traits

12) PHP WITH MYSQL

- What is MySQL
- Integration with MySQL
- MySQL Functions
- Gmail Data Grid options
- SQL Injection
- PDO MySQL
- Uploading and downloading images in Database
- Registration and Login forms with validations
- Paging,Sorting

13) STRINGS AND REGULAR EXPRESSIONS

- Declarations styles of String Variables
- Heredoc style
- String Functions
- Regular Expression Syntax(POSIX)
- PHP's Regular Expression Functions(POSIX Extended)

14) 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

15) ERROR AND EXCEPTION HANDLING

- Error Logging
- Configuration Directives
- PHP's Exception Class
- Throw New Exception
- Custom Exceptions
- Error and Exception codes - Generic and custom

16) DATE AND TIME FUNCTIONS

- Date and Time Functions

17) AUTHENTICATION

- HTTP Authentication
- PHP Authentication
- Authentication Methodologies
- JWT and Passport
- OAUTH
- LDAP

18) COOKIES

- Why Cookies?
- Types of Cookies
- How to Create and Access Cookies
- Tracking cookies

19) SESSIONS

- Session Introduction
- Session Variables
- Creating and Destroying a Session
- Retrieving and Setting the Session ID

- Encoding and Decoding Session Data
- Auto-Login
- Working of session Practically

20) MYSQL CONCEPTS

- Introduction
- Storage Engines
- Functions
- Operators
- Constraints
- DDL commands
- DML Commands
- DCL Command
- TCL Commands
- Views
- Joins
- Cursors
- Indexing
- Stored Procedures, Triggers
- Mysql with PHP Programming
- Mysql with SQL Server (Optional)
- Mysql Architecture - Basic