**PHP COURSE CURRICULUM**

**What Student will Achieve During This Course**

This course will enable you to build real-world, dynamic web sites. Using PHP language and database MySQL allows you to make our sites dynamic. Using this course student will be able to learn like:

∙ User authentication and personalization - 8h

∙ CRUD operations. - 8h

∙ Accessing command line arguments from PHP scripts - 2h

∙ Integrating database content to generate dynamic Web pages - 4h

∙ Generating web pages dynamically using PHP - 4h

∙ Retrieving Web Pages manipulating from data - 3h

∙ Personalizing Web site content using Session and Cookies -3h

∙ Tracking user navigation on your Web site - 8h

∙ Regular Expression with PHP to Make strong validation - 8h

∙ Exception Handling -4h

∙ PDF document generation, etc… - 8h

**Hyper Text Markup Language (HTML) - 2 days (16 h)**

∙ Introduction to HTML -

∙ Structure of HTML

∙ Attributes & Values

∙ Comments, Header Tags

∙ Image Tag

∙ Link Tags (Text & Image)

∙ Marquee Tag

∙ List Tag (Ordered & Unordered)

∙ Table Tag

∙ Form Tags

∙ Audio, Video Tags

∙ About Iframe

∙ Embedding of Google Maps

**JavaScript (JS) - 2 days (16 h)**

∙ Introduction to JavaScript

∙ Variable , Operators , Conditions

∙ Looping and Array

∙ Introduction to functions

∙ Popup Boxes (Alert ,Confirm ,Prompt)

∙ Form Handling

∙ DOM Manipulation

∙ Pre- defined functions

∙ Client Side Validation (Regular Expression)

**Style Sheet (CSS) -2 DAYS (16H)**

∙ Types of style sheet

∙ About CSS Selectors

∙ About CSS Properties

∙ Background Properties

∙ Box Properties

∙ Border Properties

∙ Positioning Properties

∙ CSS Menu Design

∙ Creating a Web Layout using Divs, CSS

**Introduction to PHP - 1H**

∙ Web Architecture

∙ Overview of PHP Platform

∙ Origins of PHP in the open source community

∙ Why we use PHP?

∙ Some of PHP's strengths:

∙ Some of PHP's main competitors are PERL, Microsoft ASP.NET, JavaServer Page ∙ Availability across multiple platforms

∙ Installing as a module for Apache Web Server

**PHP language building blocks - 1H**

∙ Comparing PHP with other Web scripting languages or technology ∙ Installation of PHP

∙ PHP delimiters

∙ Variable initialization with PHP

∙ PHP Data types

∙ PHP Constants

∙ PHP Operators

**Conditional Statements - 2H**

∙ If else

∙ If else if else

∙ Nested If

∙ Switch Case

∙ Jump Statements ( Break , Continue , Exit )

**Looping (Iteration) -2H**

∙ For loop

∙ While loop

∙ Do while loop

∙ Nested Loop

**Introducing ARRAY - 2H**

∙ How to use an important programming construct: arrays

∙ Numerically Indexed arrays

∙ Non-Numerically Indexed arrays (Associative Array)

∙ Multidimensional arrays

∙ Array sorting

**Manipulation user input -2H**

∙ Presenting the user with input options via different HTML from elements ∙ Retrieving form data with $\_POST,$\_GET and $\_REQUEST arrays ∙ Preserving Data in Form inputs

**Reusing Code and Functions -2H**

∙ Introducing Functions

∙ Defining functions

∙ Using parameters

∙ Understanding scope

∙ Returning values

∙ Call By Value & Call By reference

∙ Using Require() and include()

∙ Array , String , Math , Date functions

**File Uploading & Downloading -2H**

∙ File uploading Concepts

∙ Multiple File Upload

∙ Downloading file from server using header.

**String Manipulation and Regular Expression - 2H** ∙Formatting , Joining ,splitting , comparing strings ∙ Introducing Regular Expression

**State Management -2H**

∙ Session, Cookie , Query String

∙ Understanding Basic Session Functionality ∙ Starting a Session

∙ Registering Session variables

∙ Using Session Variables

∙ Destroying the variables and Session

∙ What is a Cookie?

∙ Setting Cookies with PHP

∙ Using Cookies with Sessions

∙ Deleting Cookies

∙ Implementing Query String

∙ Hidden Fields

**MySQL Database -3H**

∙ Introduction to DBMS and Mysql

∙ Web Database Design & Architecture.

∙ Creating a MySQL Database

∙ Creating Database Tables

∙ Column Data Types

∙ Implementing Insert/Delete/Update and select Query ∙ Aggregate Functions

∙ Having and Group By Clause

∙ Joining Table

∙ Implementing Keys & Constraint.

∙ Dropping Tables and Databases

**Database Connection -3H**

∙ Mysql database connectivity

**Advance PHP Techniques -6H**

∙ PDF Generation

∙ Excel or CSV Generation

∙ Implementing Pagination

∙ Exception Handling

| **S.No** | **Topic** | **Theory duaration req (apprx)** | **Practical duration req (apprx)** |
| --- | --- | --- | --- |
| **1** | **Hyper Text Markup Language (HTML)**  | 8H | 8H |
| **2** | **JavaScript (JS)** | 8H | 8H |
| **3** | **Style Sheet (CSS)** | 8H  | 8H |
| **4** | **Introduction to PHP**  | 1H  | 1H |
| **5** | **PHP language building blocks** | 1H | 1H |
| **6** | **Conditional Statements** | 2H | 2H |
| **7** | **Looping (Iteration)** | 2H | 2H |
| **8** | **Introducing ARRAY** | 2H | 2H |
| **9** | **Manipulation user input** | 2H | 2H |
| **10** | **Reusing Code and Functions** | 2H | 2H |
| **11** | **File Uploading & Downloading** | 2H | 2H |
| **12** | **String Manipulation and Regular Expression**  | 2H | 2H |
| **13** | **State Management** | 2H | 2H |
| **14** | **MySQL Database** | 3H | 3H |
| **15** | **Database Connection** | 3H | 3H |
| **16** | **Advance PHP Techniques** | 6H | 6H |
| **17** | **Total duration (160 H)** | **54H** | **56H** |

| **S.No** | **Assessments** | **Duration** |
| --- | --- | --- |
| **1** | User authentication and personalization | 8h |
| **2** | CRUD operations.  | 8h |
| **3** | Accessing command line arguments from PHP scripts | 2h |
| **4** | Integrating database content to generate dynamic Web pages  | 4h |
| **5** | Generating web pages dynamically using PHP | 4h |
| **6** | Retrieving Web Pages manipulating from data | 3h |
| **7** | Personalizing Web site content using Session and Cookies | 3h |
| **8** | Tracking user navigation on your Web site  | 8h |
| **9** | Regular Expression with PHP to Make strong validation | 8h |
| **10** |  Exception Handling  | 4h |
| **11** | PDF document generation, etc…  | 8h |
|  | TOTAL | **60h** |

**Total - 160 h**

**Theory - 54h**

**Practical - 56h**

**Assessment - 60h**

**Total - 170h**

**Excess - 10 h (may vary depends on the trainer and students capacity)**

* **All this are based on the weekend schedule - saturday (only)**
* **This duration is an approximate calculation done with the help of the above mentioned syllabus.**
* **When we conduct only on saturdays it may take 5 months to complete the syllabus. (June, July, August,September, October)**