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Website : www.citcchandigarh.com

Course Syllabus: Diploma in Professional Programmer-PHP

Batch Name: DP-PHP

Eligibility: 12th

Course Start: 1st of Every Month

Course Duration: 180 Hours

Courses / Modules Paper

Module 1

Paper 1
PHP, MySQL

Module 2:

Paper 1
Jquery

Module 1

Paper 1: PHP, MySQL

PHP

1: PHP Introduction

- 1.1 What is PHP
- 1.2 Uses of PHP
- 1.3 Why PHP
- 1.4 Installing PHP
- 1.5 PHP Syntax Overview
 - Basic PHP Syntax
 - Comments in PHP
 - PHP Echo and Print
 - PHP Variables
 - PHP \$ and \$\$

2: PHP Constants & Magic

- 2.1 PHP Constant Types
- 2.2 Creating Constant
- 2.3 Difference b/w Constant & Variable
- 2.4 Magic Constants
 - `__LINE__`
 - `__FILE__`
 - `__DIR__`
 - `__FUNCTION__`
 - `__CLASS__`
 - `__METHOD__`

3: PHP Operators

- 3.1 Types of PHP Operators
 - Arithmetic Operators
 - Assignment Operators
 - Comparison Operators
 - Increment/Decrement Operators
 - Logical Operators
 - String Operators
 - Array Operators

4: PHP Data Types

- 4.1 Data Types
- 4.2 Boolean
- 4.3 `is_bool` Function
- 4.4 `is_int()` Function
- 4.5 `is_float` Function
- 4.6 `is_null` Function

5: PHP Control Statements

- 5.1 PHP Decision Making Statements
 - `if..else` Statement
 - `if..elseif..if` Statement
 - `elseif` Statement
 - `Switch` Statement
- 5.2 PHP Loops
 - For Loop
 - While Loop
 - Do while Loop
 - For Each Loop
 - The Break Statement
 - The Continue Statement

6: PHP Arrays and Strings

- 6.1 Arrays
- 6.2 Creating an Array
- 6.3 Types of PHP Arrays
 - Indexed/Numeric Array
 - Associative Array
 - Multidimensional Array
- 6.4 Sorting Arrays
- 6.5 PHP Sort Array Functions
- 6.6 PHP Strings
- 6.7 PHP String Functions

7: PHP Functions & Superglobals

- 7.1 Creating and Calling PHP Function
- 7.2 Argument Passing Techniques
 - Pass by Value
 - Pass by Reference
- 7.3 PHP Recursive Function
- 7.4 PHP Superglobal Variables
 - `$GLOBALS`
 - `$_SERVER`
 - `$_REQUEST`
 - `$_POST`
 - `$_GET`
 - `$_FILES`
 - `$_COOKIE`
 - `$_SESSION`
 - `$_ENV`

8: Form Handling and File Inclusion

- 8.1 Collect Data from Form
 - By GET Method
 - By POST Method

9 PHP File Handling

- 9.1 File Handling Functions
- 9.2 Opening a File
- 9.3 Reading a File
- 9.4 Writing a File
- 9.5 Closing a File
- 9.6 Deleting a File

10: Cookie and Session

- 10.1 Creating Cookie
- 10.2 Setting Cookie
- 10.3 Deleting Cookie
- 10.4 PHP Sessions
- 10.5 Start PHP Session
- 10.6 Accessing Session Variable Values
- 10.7 Modifying Session Variable
- 10.8 Destroy a Session

11: PHP Exception Handling

- 11.1 What is an Exception
- 11.2 Try, Throw and Catch

12: Mail and File Uploading

- 12.1 Sending Mails
- 12.2 Sending HTML Mails
- 12.3 Creating an Upload Form

MySQL

1: Introduction to MySQL Databases

- 1.1 What is MySQL?
- 1.2 Database Queries
- 1.3 Download MySQL Database
- 1.4 MySQL Syntax Overview

2: Working with MySQL Database

- 2.1 Connect to MySQL Database
- 2.2 Create Database
- 2.3 Select Database
- 2.4 Drop Database

3: Working with Tables and Views

- 3.1 Create Table
- 3.2 Alter Table
- 3.3 Truncate Table
- 3.4 Drop Table
- 3.5 MySQL Views

4: MySQL Queries

- 4.1 MySQL Queries Overview
- 4.2 Insert Record
- 4.3 Update Record
- 4.4 Delete Record
- 4.5 Select Record

5: MySQL Clauses and Joins

- 5.1 WHERE Clause
- 5.2 DISTINCT Clause
- 5.3 FROM Clause
- 5.4 ORDER BY Clause
- 5.5 GROUP BY Clause
- 5.6 HAVING Clause
- 5.7 MySQL Joins
 - INNER JOIN
 - LEFT OUTER JOIN
 - RIGHT OUTER JOIN

6: MySQL Conditions

- 6.1 AND Condition
- 6.2 OR Condition
- 6.3 AND OR Condition
- 6.4 LIKE Condition
- 6.5 IN Condition
- 6.6 NOT Condition
- 6.7 IS NULL Condition
- 6.8 IS NOT Condition
- 6.9 BETWEEN Condition

7: MySQL Aggregate Function

- 7.1 count() Function
- 7.2 sum() Function
- 7.3 avg() Function
- 7.4 min() Function
- 7.5 max() Function
- 7.6 first() Function
- 7.7 last() Function

8: MySQL Transactions

- 8.1 Transactions Overview
- 8.2 Properties of Transactions
 - Atomicity
 - Consistency
 - Isolation
 - Durability
- 8.3 COMMIT and ROLLBACK Keywords



Module 2:

Paper 1: JQuery

1: Introduction to jQuery

- 1.1 What is jQuery
- 1.2 Why jQuery
- 1.3 Add jQuery to Web Page
 - Download the jQuery library from JQuery.com
 - Include jQuery from a CDN
- 1.3 jQuery Syntax Overview

2: jQuery Selectors

- 2.1 The Element Selector
- 2.2 The #id Selector
- 2.3 The .class Selector
- 2.4 The Universal Selector
- 2.5 Multiple Elements Selectors

3: jQuery Events

- 3.1 What are jQuery Events
- 3.2 Types of jQuery Events
 - Mouse Event
 - Keyboard Event
 - Form Event
 - Document/Window Event
- 3.3 jQuery Event Methods

4: jQuery Effects

- 4.1 Types of jQuery Effects
 - Display Effects
 - Fading Effects
 - Sliding Effects
 - Other Effects
- 4.2 jQuery Chaining

5: jQuery Interactions

- 5.1 JQ Draggable
- 5.2 JQ Droppable
- 5.3 JQ Resizable
- 5.4 JQ Selectable
- 5.5 JQ Sortable