

Certificate Course in Web Programming through PHP (CCWP-PHP)

Objective:

This course is designed to impart software development training programme IT aspirants. After completing the course the incumbent is able to do the software development using object oriented methodologies and various programming languages. This course is more practical oriented. After completion of course the candidates will be able to get employment as Software Developer and Programmer in IT industries. It consists of following two modules:

Course Duration: 480 Hrs

Eligibility Criteria: BCA/B.Tech/MCA or above

Module 1: Linux & PHP

Module 2: DBMS Packages

Module 1: Linux & PHP

1. Introduction to Linux:

Development of Linux, Various Distribution of Linux, Linux System Concepts- Directory Structure and File Structure, System Requirement, Different types of Installation process- CD ROM, Network and quick start, Disk Partitioning Auto and Manual, Different Types of Linux Installation – Server, Workstation and Customs, Boot Loader, Booting : LILO/GRUB Configuration, Run Level, Initialization Script, Devices Initialization and their Access, Shut Down Procedures.

2. Linux Commands and Shell Programming:

Concepts of Processes, Commonly used user commands, Editors, Environment Variables, Time and Date, User Information, Host Information, Terminals, The termios structure, Various Shells and Shell Programming, Variables, Condition, Control structure, Function, Command, Graphical utility.

3. PHP Basics:

Understanding PHP, PHP Basics syntax, Ending data, HTML and white space, Writing comments Using variables, Using strings, Using numbers, Using constants.

4. Programming with PHP:

Creating HTML forms, Handling HTML forms, Managing magic quotes, Using conditionals and operators, Validating form data, Using arrays, Creating and accessing arrays, Multidimensional arrays, Arrays and strings, Sorting arrays, For and While loops, functions.

5. Creating Dynamic Websites:

PHP Forms(_Get,_Post), Including multiple files, Using PHP redux, Making sticky forms Creating your own functions, Creating a function that takes arguments, Setting default argument values, Returning values from a function, variables scope, Date and time functions.

6. Error Handling and Debugging:

General error types and debugging, Debugging HTML, Displaying PHP, errors, Adjusting PHP error reporting, Creating custom error handlers, Logging PHP errors, PHP debugging techniques, SQL and MySQL debugging techniques.

7. Using PHP with MySQL

Modifying the template, Connecting to MySQL and selecting the database, Executing simple queries, Retrieving query results, Ensuring secure SQL, Counting returned records, Updating records with PHP.

8. Cookies and Sessions

Setting cookies, Accessing cookies, Setting cookie parameters, Deleting cookies, Setting session variables, Accessing session variables, Deleting session variables, changing session behaviour, changing the session cookie settings, Using sessions without cookies, improving session security.

9. Developing Web Applications

Adjusting behaviour for server settings, Sending values manually, using hidden form inputs, editing existing records, Paginating query results, making sortable displays, Understanding HTTP.

Module 2: DBMS Packages

1. Database Management Systems:

Types of Database, DBMS Elements, Constraints, Relationships, E-R Diagram, Normalization, First Normal Form, Second Normal Form, Third Normal Form, BCNF, Locking, Database security & Backup.

2. MySQL:

Introduction to MySQL Packages, Post Install configuration & Troubleshooting, MySql administration, Creating Users, Creating Database, Database permissions Working with MySql, Query: Create Table, Insert, Select, Alter, Drop, Delete, Update, Joins, Nested Query, View, index, Trigger, Cursor, Procedure, Function.