



TEERTHANKER MAHAVEER UNIVERSITY, MORADABAD FACULTY OF ENGINEERING & COMPUTING SCIENCES

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05th July -2016



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PHP Professional

Objective: PHP is the latest trend in the IT sector and this course is designed to make the students aware of the web development standards and technologies, and to make them ready for developing the web applications with the help of PHP as a language. At the completion of this course the students will be able to attain good job in web development sector. Also by this course they will know, the current web development trend in the IT sector.

Programming with PHP:-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, In comparison to these, Products, PHP has much strength, Availability across multiple platforms, Installing as module for Apache Web server and Microsoft Internet information server.

PHP language building blocks:-Comparing PHP with other Web scripts language or, technology, PHP delimiters, Variable delimiters, Investigating PHP, data types.

PHP scripts:-Storing values in scalar variables, employing arrays, Building Complete scripts incorporating loops and conditional expressions, Operators.

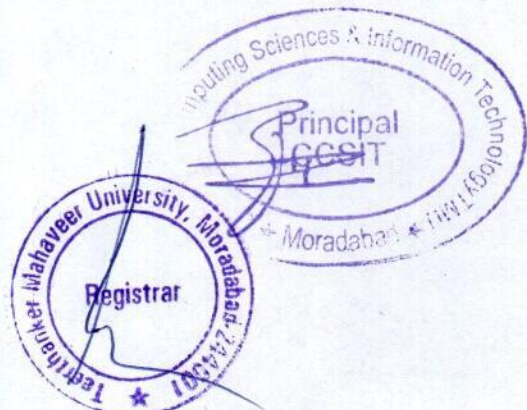
Writing web pages with PHP:-Interacting with the server, Outlining Web Protocols, Embedding PHP code into HTML pages, employing shortcuts to display single PHP scripts, determining how data is sent from forms to PHP scripts.

Manipulation user input:-Presenting the user with input options via different HTML form elements, Retrieving form data with \$-POST,\$-GET and \$- REQUEST[] arrays, Validating retrieved data, Strategies for handling invalid input, Storing state information using cookies, Tracking user's identification.

Applying Advance Scripting Techniques:-Exploiting the built-in functionality of PHP, Formatting data and time information, Manipulating string data.

Structure PHP Code:-Writing user-defined functions to structure your code, Passing arguments and default values to function, Returning data from function, Accessing global variables, Building code libraries for reusability, Incorporating on-screen PHP scripts with include, include-once, require and require once

Building Complete web Applications managing errors:-Investing the HTTP header, Suppressing on-screen error messages on production servers, configuring the php_ini file to control error message.



Handling problematic situations:-Troubleshooting problems when manipulating data, redirecting the browser to other pages, modifying the PHP configuration file to suit your needs, developing debugging strategies

Establishing database connectivity:-Why use MYSQL? Some of MySQL's Strengths, What is RDBMS technology?, SQL and their basics need, Creating and managing database connections, Sending queries to the database server employing most efficient methods, Retrieving query, results as associative arrays, Looping through databases, Displaying returned data on Web pages, Avoiding potential problems by managing and backslashes in data, Closing the database connection

String Manipulation and Regular Expression:-Formatting string for presentation, Formatting String for Storage, Joining and Splitting String, Comparing Strings, Matching and replacing substring, pattern matching.

Table of Contents:-Basic Syntax and programming with PHP, PHP delimiters, Creating User Defined Variable, Assigning values to scalar variable, Evaluating Expression, Making decision with if, else and switch, Advance of iteration while, do and for loops, Comments with PHP.



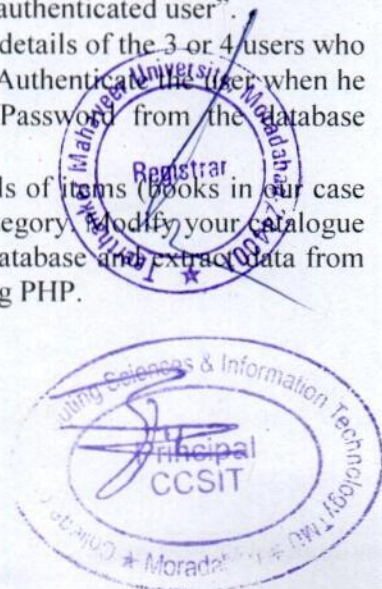
PHP TRAINING LAB

Course Code: BCA 556

L-0, P-4

Course Content

1. Basic program related to looping, control statement and functions.
2. Program related to array.
3. Program related to string.
4. Program related to Global Variables.
5. Form Validation in PHP
 - a. Write a HTML file to create a simple form with 5 input field wise: Name, Password,
 - b. Email, Pincode, Phone No. and a Submit button.
 - c. Write a PHP program to demonstrate required field validations to validate that all input fields are required.
 - d. Write a PHP program to validate Name, Email and Password.
 - e. Write a PHP program to display error messages if the above validations do not hold.
 - f. Create a form for your college library entering student details for each student in the college. Validate the form using PHP validators and display error messages.
6. File Handling in PHP
 - a. Create a PHP program to demonstrate opening and closing a file.
 - b. Create a PHP program to demonstrate reading a file.
 - c. Create a PHP program to demonstrate writing in a file.
 - d. Create a PHP program to read the following text from a file nitkkr.txt "National Institute of Technology, Kurukshetra (or NIT Kurukshetra), is a public engineering university located in Kurukshetra. In December 2008, it was accredited with the status of Institute of National Importance (INI)" And write to another file Coursephp.txt.
 - e. Write a program in PHP to print the count of word the as an independent word in text file STORY.TXT. For example, if the content of the file STORY.TXT is "There was a monkey in the zoo. The monkey was very naughty." Then the output of the program should be 2.
7. Database in PHP
 - a. Assume four users user1, user2, user3 and user4 having the passwords pwd1, pwd2, pwd3 and pwd4 respectively. Use PHP script for programs 1 and 2.
 - b. Create a Cookie and add these four user ID's and passwords to this Cookie.
 - c. Read the User id and Passwords entered in the Login form and authenticate with the values (UserId and Passwords) available in the cookies. If he is a valid user (i.e., UserName and Password match) you should welcome him by name (UserName) else you should display "You are not an authenticated user".
 - d. Write a PHP which does the following job: Insert the details of the 3 or 4 users who register with the web site by using registration form. Authenticate the user when he submits the login form using the UserName and Password from the database (instead of cookies).
 - e. Create tables in the database which contain the details of items (books in our case like Book name, Price, Quantity, Amount) of each category. Modify your catalogue page in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using PHP.
 - f. Create and delete MYSQL database using PHP.
8. Session Tracking in PHP
 - a. Write a PHP program to start a PHP Session.
 - b. Write a PHP program to destroy a PHP Session.
 - c. WAP to create a PHP Session without cookies.



- d. Write a PHP program to store current date-time in a COOKIE and display the "Last visited on date-time on the web page upon reopening of the same page.
 - e. Write a PHP program to store page views count in SESSION, to increment the count on each refresh, and to show the count on web page.
9. Program related to AJAX

Course Outcome

By the end of this course a student should be able to:

- Explain the processes by which a PHP programme is compiled.
- Write basic PHP programs with variables and arithmetic operators.
- Use appropriate C programming statements to control flow of execution in a PHP programme.
- Exercise good programming practices in the design of Programmes.

