18BC202 WEB SCRIPTING THROUGH PHP & MYSQL

Course Description and Objectives:

This course offers the basic concepts used to develop static and dynamic web pages. It also provides the knowledge of a Web server, MYSQL, and form handling with PHP. The objective of this course is to build web applications with PHP and MYSQL database using XAMPP/WAMP tool.

Course Outcomes:

Student will be able to:

- > Use different data types to design programs involving decisions, loops, and functions.
- ▶ Work with HTML forms and handling HTML forms using PHP.
- Familiar with MYSQL database and perform insert, update and delete operations on DBMS tables.
- > Implement and debug programs in PHP and MYSQL for a specific application.

Skills:

- Apply control statements for decision making problems.
- Create the database tables with application related constraints (primary key, foreign key, candidate key etc...)
- Designing HTML forms with validations on them.

Activities:

- Design an application to perform various operations of a real world problem.
- Develop and design a user interface for web applications.
- Implement the Data Base-Oriented Projects like student management system, stock management systems, library management system etc...

Syllabus

12 Hours

12 Hours

ESSENTIALS OF PHP: Define PHP, WAMP/XAMP server installation, Creating & running first PHP script, Variables, Data types;Operators -Arithmetic Operators, Assignment Operators, Bitwise Operators, Comparison Operators, Incrementing /Decrementing Operators, Logical Operators, String Operators, Expressions, Constants.

UNIT - 2

DECISIONS AND LOOPS: if, if-else, else if and switch statements, Compact coding with the Ternary operator, while, do- while, for, break, continue; Strings - Creating and Accessing

UNIT - 1

ARRAYS AND FUNCTIONS: Creating Arrays, Outputting an Entire Array with print_r()-Extracting a Range of Elements with array_slice()-Counting Elements in an Array, Arrays with foreach loops, Working with multidimensional arrays; Functions - Use of function, Calling functions, Writing your own functions, Defining parameters, Optional parameters and Default values, Returning values from your functions, Understanding variable scope, Writing recursive functions.

Strings, Searching Strings, Replacing Text within Strings, Dealing with Upper case and

UNIT – 4

Lowercase.

UNIT - 3

HANDLING HTML FORMS WITH PHP: HTML Forms, Capturing form data with PHP, Dealing with Multi-value fields, Creating file upload forms.

UNIT – 5

DATA BASE CONCEPTS: MySQL data types - Numeric data types, Date and Time data types, String data types; MySQL Commands - Creating a new database, Creating a table, Adding data to a table, Reading data from a table, Updating data in a table, Deleting data from a table, Deleting tables and databases, Retrieving data with select; Connecting to MySQL from PHP, Manipulating MySQL data with PHP - Inserting records, Updating records, Deleting records.

List of Experiments:

- 1. Create a PHP webpage and print "hello world".
- 2. Write a PHP program to swap two numbers without using third variable.
- 3. Write a Program to check and print whether a given number is even or odd.
- 4. Write a program to compute net amount from the given quantity purchased and rate per quantity. Discount @10% is allowed if the quantity purchased exceeds 100.
- 5. Write a program to find largest among three numbers using conditional operator and ternary operators.
- 6. Write a program to print sum of digits of a given number. (using while loop)
- 7. Write a program to print Fibonacci series upto a given number.
- 8. Write a program to enter numbers till the user wants. At the end it should display the count of positive, negative and zeros entered. (Using do-while loop)
- 9. Write a PHP Program to demonstrate the variable function: Gettype() and Settype().
- 10. Write a PHP Program to demonstrate the variable unction: isset() and unset().
- 11. Write a function countWords (\$str) that takes any string of characters and finds the Number of times each word occurs. You should ignore the distinction between capital and lowercase letters.
- 12. Create a form with one text field and submit buttons for string length, string reverse and uppercase, lowercase, string replace. Display the result accordingly.
- 13. Write a Menu-Driven program to implement a calculator which performs only addition, subtraction, multiplication and division. The operation should happen based on the user choice. (use switch case).

12 Hours

12 Hours

- ---

12 Hours

- 14. Write a function to swap two string values using call by value and call by references.
- 15. Write a program that will accept an array of integers as input, and output an array where for each item in the source array, the new array will perform the following operations:
 - For even numbers divide by 2
 - For odd numbers multiply by 3
- 16. Write a program that create a file and write contents to it and display it. Then append some data to it.
- 17. Create a login form with two text fields called "login" and "password". When user enters "Galgotias" as a user name and "university" as a password it should be redirected to a Welcome.HTML page or to Sorry.HTML in case of wrong username/password.
- 18. Write a PHP program using Java Script to convert the decimal number to its binary equivalent. You must use a form to accept the number from the user.
- 19. Write a PHP code that define class Student with attributes RollNo, Name, Branch, and Year, create 3 instances of it, sets the values of each instance appropriately and print the values of all attributes.
- 20. Write a function calculateAverage () which takes four int arguments which are marks for four courses in the semester and returns their average as a float. The calculateAverage () function should take only valid range for marks which is between 0 100. If the marks are out of range is should throw an OutOfRangeException and handles it.
- 21. Create a form with a text box asking to enter your favorite city with a submit button when the user enters the city and clicks the submit button another php page should be opened displaying "Welcome to the city".
- 22. Write a PHP program that demonstrate form element(input elements).
- 23. Write a PHP program to create a database using MySQL.
- 24. Write a PHP program to drop a database using MySQL.
- 25. Write a PHP program to create a table in MySQL.
- 26. Write a PHP program to insert record into a table using MySQL.
- 27. Write a PHP program to drop table using MySQL.
- 28. Write a program to update table.
- 29. Write a PHP program to select data and show into table format.
- 30. Create a student Registration in PHP and Save and Display the student Records
- 31. Write a program to read customer information like c_no, c_name, item_purchased and mob_no from customer table and display all this information in table format on output screen.
- 32. Write PHP code to upload image.
- 33. Write a program that displays a different message based on time of day. For example page should display "Good Morning" if it is accessed in the morning.

Text Book:

Matt Doyle, "Beginning PHP 5.3", 1st Edition, Wiley Publishing, Inc., 2010.

Reference Book:

Kevin Tatroe, Peter MacIntyre, and RasmusLerdorf, "Programming PHP", 3rd Edition, 2013.