

## **PART B - Web Programming using PHP**

The purpose of this course is to use laboratory and practice web programming with the help of HTML, CSS, JavaScript and PHP.

- Learners are expected to use laboratory and practice the problems listed in the program list given below.
- Minimum number of experiments in the Laboratory Record Book should be 20.

### **Course Outcomes:**

**CO1:** Create Static web pages with the help of HTML and CSS

**CO2:** Implement Client side scripting using JavaScript

**CO3:** Implement Server side scripting using PHP

**CO4:** Interact with database through PHP

**CO5:** Design and develop dynamic web pages

### **Program List:**

#### **HTML and CSS**

1. Design a webpage that illustrates the use of the following form controls:
  - (i) input controls: single-line text, password, multi-line text.
  - (ii) buttons: submit and reset.
2. Design a webpage that illustrates the use of the following form controls: (i) input controls: check box, radio button, select box (ii) buttons: submit and reset.
3. Design a webpage that illustrates the use of the following form controls: (i) input controls: datalist, multi-select box, grouped select box (ii) buttons: submit and reset.
4. Design a webpage that illustrates the use of field sets and legends.
5. Design a web page to demonstrate Border colors using internal CSS.

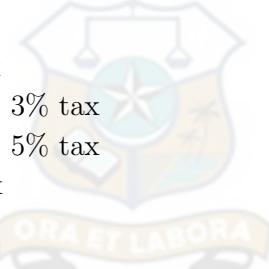
6. Design a web page to demonstrate Text alignment using CSS.
7. Design a web page to demonstrate inline CSS.
8. Design a webpage to invert the behavior of the `h1` to `h6` tags using external CSS.
9. Design a webpage for a simple image gallery.

### **JavaScript**

10. Write a javascript program to perform find the area and circumference of a circle.
11. Write a javascript program to check whether the given sides can form a triangle. If yes, find the type (isosceles, equilateral and scalene) and area of the triangle. Use prompt dialogue box to accept the sides.
12. Design a JavaScript program to illustrate the following events: onLoad, onClick, onBlur, onSubmit, onChange.
13. Design a JavaScript program to display the multiplication table of a no accepted from the user.
14. Design a form that accepts two integers. Provide 4 buttons for Add, Subtract, Multiply, Divide. Add JavaScript program to add, subtract, multiply and divide the given numbers when these buttons are clicked
15. Write a JavaScript program to store different colors in an array and change the background color of the page using this array elements
16. Write a JavaScript program to create clock with a timing event.
17. Write a JavaScript program to perform form validation for question number 1, 2 and 3.

### **PHP**

18. Write a PHP program to check whether the given number is Armstrong or not.
19. Write a PHP program to check whether a given number is perfect, abundant or deficient.
20. Display the Fibonacci series up to a given number.
21. Create a php program to display the bio data of a person by reading the personal details using an HTML page.

22. Create a login page using database.
23. Create a mysql table student with fields roll no, name, mark, grade. Insert records in the table. Write a PHP program to display the mark list of a student by accepting the register no of the student.
24. Write a php application to generate the pay slip of an employee by accepting name, basic salary and designation. The net salary will be calculated based on the following conditions.  
Manager will get 1000 Conveyance allowance and 500 Extra allowance  
Supervisor will get 750 Conveyance allowance and 200 Extra allowance  
Clerk will get 500 Conveyance allowance and 100 Extra allowance  
Peon will get 250 Conveyance allowance  
HRA is 25% for all employees  
 $\text{Gross} = \text{basic} + \text{HRA} + \text{conveyance} + \text{extra}$   
 $\text{Net} = \text{gross} - \text{income tax}$   
Income Tax  
 $\text{Gross} \leq 2000$ : No tax  
 $2500 < \text{Gross} \leq 4000$ : 3% tax  
 $4000 < \text{Gross} \leq 5000$ : 5% tax  
 $\text{Gross} > 5000$ : 8% tax
25. Create a table “product” with fields itemcode, itemname, unitprice. Write php program to insert 5 records into the table and display it in a table format.
26. Write a php program for delete and update operation on account table. The account table contain fields such as accountno, name and amount.
27. Write an HTML page to display a list of fruits in a list box. Write php program to display the names of the fruits which are selected by the user
28. Write a php program to create an array and store 10 names in the array. Do the following operations.
  - (a) Display the contents using for each statement.
  - (b) Display the array in a sorted order.
  - (c) Display the array without the duplicate elements
  - (d) Remove the last element and display
  - (e) Display the array in reverse order
  - (f) Search an element in the given array.