3rd SEMESTER
SKILL ENHANCEMENT COURSE (SEC)

CAP318S: PHP Programming   (2+2 CREDITS)

Introduction to PHP: (3L)

   PHP introduction, inventions and versions, important tools and software requirements (like Web Server, Database, Editors etc.)

   PHP with other technologies, scope of PHP

   Basic Syntax, PHP variables and constants

   Types of data in PHP, Expressions, scopes of a variable (local, global)

   PHP Operators: Arithmetic, Assignment, Relational, Logical operators, Bitwise, ternary and MOD operator.

   PHP operator Precedence and associativity

Handling HTML form with PHP: (2L)

   Capturing Form Data GET and POST form methods

   Dealing with multi value fields

   Redirecting a form after submission

PHP conditional events and Loops: (3L)

   PHP IF Else conditional statements (Nested IF and Else)

   Switch case, while, For and Do While Loop

   Goto, Break, Continue and exit

PHP Functions: (3L)

   Function, Need of Function, declaration and calling of a function

   PHP Function with arguments, Default Arguments in Function

   Function argument with call by value, call by reference

   Scope of Function Global and Local

String Manipulation and Regular Expression: (2L)

   Creating and accessing String , Searching & Replacing String

   Formatting joining and splitting String , String Related Library functions

   Use and advantage of regular expression over inbuilt function

   Use of preg_match(), preg_replace(), preg_split() functions in regular expression

Array: (2L)

   Anatomy of an Array ,Creating index based and Associative array ,Accessing array

   Looping with Index based array, with associative array using each() and foreach()

Some useful Library function Reference Books:

1. Steven Holzner, "PHP: The Complete Reference Paperback", McGraw Hill Education (India), 2007.
2. Timothy Boronczyk, Martin E. Psinas, "PHP and MYSQL (Create-Modify-Reuse)", Wiley India Private Limited, 2008.
3. Robin Nixon, "Learning PHP, MySQL, JavaScript, CSS & HTML5", 3rd Edition Paperback, O'reilly, 2014.
4. Luke Welling, Laura Thompson, PHP and MySQL Web Development", 4th Edition, Addition Paperback, Addison-Wesley Professsional,2008.
5. David Sklar, Adam Trachtenberg, "PHP Cookbook: Solutions & Examples for PHP Programmers", 2014.

Lab CAP318S: PHP Programming

Practicals: 30 Lectures

1. Create a PHP page using functions for comparing three integers and print the largest number.
2. Write a function to calculate the factorial of a number (non-negative integer). The function accept the number as an argument.
3. WAP to check whether the given number is prime or not.
4. Create a PHP page which accepts string from user. After submission that page displays the reverse of provided string.
5. Write a PHP function that checks if a string is all lower case.
6. Write a PHP script that checks whether a passed string is palindrome or not? (A palindrome is word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run)
7. WAP to sort an array.
8. Write a PHP script that removes the whitespaces from a string.
   Sample string : 'The quick "" brown fox' Expected

   Output:

   Thequick""brownfox
9. Write a PHP script that finds out the sum of first n odd numbers.
10. Create a login page having user name and password. On clicking submit, a welcome message should be displayed if the user is already registered (i.e.name is present in the database) otherwise error message should be displayed.
11. Write a PHP script that checks if a string contains another string.
12. Create a simple 'birthday countdown' script, the script will count the number of days between current day and birth day.
13. Create a script to construct the following pattern, using nested for loop.

    * *
    * * *
    * * * *

14. Write a simple PHP program to check that emails are valid.
15. WAP to print first n even numbers.
16. $color = array('white', 'green', 'red")
    Write a PHP script which will display the colors in the following way:

    :Output:

    white, green, red,

    .

    green • red • white

17. Using switch case and dropdown list display a —Helloll message depending on the language selected in drop down list.
18. Write a PHP program to print Fibonacci series using recursion.
19. Write a PHP script to replace the first 'the' of the following string with 'That'.
    Sample: 'the quick brown fox jumps over the lazy dog.'
    Expected Result: That quick brown fox jumps over the lazy dog.