

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA-8
(Affiliated to Krishna University, Machilipatnam)

SYLLABUS

Subject: Computer Science

Semester: V

Course Title: Web Applications

Course Code: 20CSSEC12WA3

Development with PHP & MYSQL

No. of Hours: 45

LTP: 300

Credits: 3

Objectives

- To gain basic knowledge on server-side programming
- To understand the difference between Static and Dynamic Website
- To develop Content Management System Using PHP and MySQL

Course Outcomes

CO1: Understand how to use regular expressions, handle exceptions, and validate data using PHP.

CO2: Apply In-Built functions and Create User defined functions in PHP programming.

CO3: Design PHP scripts to handle HTML forms.

CO4: Learn how to work with various components in PHP.

CO5: Gain knowledge on how to use PHP with MySQL database and can write database driven web pages.

UNIT-I

(9 Hrs.)

The Building blocks of PHP: Variables, Data Types, Operators and Expressions, Constants. Flow Control Functions in PHP: Switching Flow, Loops, Code Blocks and Browser Output.

Working with Functions: What is function?, Calling functions, Defining Functions, Returning the values from User-Defined Functions, Variable Scope, Function arguments – Programming Exercises.

UNIT-II

(9 Hrs.)

Introduction to Arrays: What are Arrays? Creating Arrays, Some Array-Related Functions.

Working with Objects: Creating Objects, Object Instance Working with Strings, Dates and Time: Formatting strings with PHP, Investigating Strings with PHP, Manipulating Strings with PHP, Using Date and Time Functions in PHP – Programming Exercises.

UNIT-III

(9 Hrs.)

Working with Forms: Creating Forms, Accessing Form Input with User defined Arrays, Combining HTML and PHP code on a single Page, Using Hidden Fields to save state, Redirecting the user, Sending Mail on Form

Submission, and Working with File Uploads.

Working with Cookies and User Sessions: Introducing Cookies, Setting a Cookie with PHP, Session Function Overview, Starting a Session, Working with session variables, passing session IDs in the Query String, Destroying Sessions and Unsetting Variables, Using Sessions in an Environment with Registered Users – Programming Exercises.

UNIT-IV

(9 Hrs.)

Working with Files and Directories: Including Files with include(), Validating Files, Creating and Deleting Files, Opening a File for Writing, Reading or Appending, Reading from Files, Writing or Appending to a File, Working with Directories, Open Pipes to and from Process Using popen(), Running Commands with exec(), Running Commands with system() or passthru().

Working with Images: Understanding the Image-Creation Process, Necessary Modifications to PHP, Drawing a New Image, Getting Fancy with Pie Charts, Modifying Existing Images, Image Creation from User Input – Programming Exercises.

UNIT-V

(9 Hrs.)

Interacting with MySQL using PHP: MySQL Versus MySQL Functions, Connecting to MySQL with PHP, Working with MySQL Data. Creating an Online Address Book: Planning and Creating Database Tables, Creating Menu, Creating Record Addition Mechanism, Viewing Records, Creating the Record Deletion Mechanism, Adding Sub-entities to a Record – Programming Exercises.

Co-Curricular Activities

- Assignments on problem solving
- Group discussions
- Student presentations and seminars
- Online quizzes
- Project work

Prescribed Books

1. Julie C. Meloni, SAMS Teach yourself PHP MySQL and Apache, Pearson Education (2007).
2. Steven Holzner , PHP: The Complete Reference, McGraw-Hill.
3. Robin Nixon, Learning PHP, MySQL, JavaScript, CSS & HTML5, Third Edition O'reilly, 2014.

Reference Book

1. Xue Bai Michael Ekedahl, The web warrior guide to Web Programming, Thomson (2006).

Web resources

- a) <http://www.codecademy.com/tracks/php>
- b) <http://www.w3schools.com/PHP>
- c) <http://www.tutorialpoint.com>

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA – 8
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Blueprint

Subject: Computer Science

Semester: V

Course Title: Web Applications

Course Code: 20CSSEC12WA3

Development with PHP & MYSQL

Time: 3 Hrs.

Max. Marks: 100

SECTION – A

Answer **ALL** questions

20 x 1 = 20M

Q. No.	UNIT	Marks Weightage	RBT LEVEL
1	I	1	No. of questions to be set RBT1 – 8 RBT2 – 8 RBT3 – 2 RBT4 – 2
2	I	1	
3	II	1	
4	II	1	
5	III	1	
6	III	1	
7	IV	1	
8	IV	1	
9	V	1	
10	V	1	
11	I	1	
12	I	1	
13	II	1	
14	II	1	
15	III	1	
16	III	1	
17	IV	1	
18	IV	1	
19	V	1	
20	V	1	

SECTION – BAnswer any **FOUR** questions**4 x 8 = 32M**

Q. No.	UNIT	Marks Weightage	RBT LEVEL
21	I	8	No. of questions to be set RBT1 – 2 RBT2 – 2 RBT3 – 1 RBT4 – 1
22	II	8	
23	III	8	
24	IV	8	
25	V	8	
26	I / II / III / IV / V	8	

SECTION – CAnswer any **FOUR** questions**4 x 12 = 48M**

Q. No.	UNIT	Marks Weightage	RBT LEVEL
27	I	12	No. of questions to be set RBT1 – 2 RBT2 – 2 RBT3 – 1 RBT4 – 1
28	II	12	
29	III	12	
30	IV	12	
31	V	12	
32	I / II / III / IV / V	12	

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA – 8
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Model Question Paper

Subject: Computer Science

Semester: V

Course Title: Web Applications

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Development with PHP & MYSQL

Time: 3 Hrs.

Max. Marks: 100

SECTION – A

Answer **ALL** questions

20 x 1 = 20 M

1. PHP also provides the function _____, which is used to change the type of a variable.

- A. changetype()
- B. type()
- C. changedatatype()
- D. settype()

2. <?php

```
function addFive(&$num)
{
    $num += 5;
}
$orignum = 10;
addFive($orignum);
echo $orignum;
?>
```

The above function best suits the following concept

- A. function with single parameter
- B. Call by Value
- C. Call by reference
- D. Existence of function

3. Which in-built function will add a value to the end of an array?

- A.array_unshift()
- B.into_array()
- C.inend_array()
- D.array_push()

4. If you are asked to maintain the data of the products produced by a production unit.

Which programming concept would you use to store the data.

- A.Class
- B.Object
- C.Array
- D.Functions

5. What are the two attributes of Form tag in Html
 - A.action & name
 - B.action & method
 - C.type & method
 - D.name & method
6. Which variable is used to collect form data sent with both the GET and POST methods?
 - A.\$_BOTH
 - B.\$REQUEST
 - C.\$_REQUEST
 - D.\$BOTH
7. The no.of parameters used by fclose() function.
 - A.1
 - B.2
 - C.3
 - D.4
8. What is the use of fopen() function in PHP?
 - A.The fopen() function is used to open folders in PHP
 - B.The fopen() function is used to open remote server
 - C.The fopen() function is used to open files in PHP
 - D.The fopen() function is used to open client
9. Which one of the following function is capable of reading a file into an array?
 - A. file()
 - B. arrfile()
 - C. arr_file()
 - D. file_arr()
10. Which one of the following statements is used to create a table?
 - A.CREATE TABLE table_name (column_name olumn_type);
 - B.CREATE table_name (column_type column_name);
 - C.CREATE table_name (column_name column_type);
 - D.CREATE TABLE table_name (column_type olumn_name);
11. _____ methods can be used to diagnose and display information about a MySQL connection error.
12. The updated MySQL extension released with PHP 5 is typically referred to as _____
13. _____ function determines the last access time of a file.
14. _____ function is used to find files in PHP.
15. _____ function is used to erase all session variables stored in the current session.
16. _____ is the default PHP session name.
17. _____ function will convert a string to all uppercase.

18. _____ character is used to access property variables on an object-by-object basis.
19. The _____ operator is similar to the if statement.
20. PHP is a _____ programming language.

SECTION – B

Answer any **FOUR** questions

4 x 8 = 32 M

21. Demonstrate how functions work in PHP with relevant example programs.
22. Explain how Numeric array and Associative arrays work in PHP.
23. Write a program that explains Classes, Objects and Inheritance in PHP.
24. Explain working with Directories in PHP.
25. Write a program to update a value of database on user request.
26. Analyse the fields required for ticket booking and create a form.

SECTION – C

Answer any **FOUR** questions

4 x 12 = 48 M

27. a) What is user defined function in PHP? Explain with an example.
b) Write a python script for finding factorial of given number using recursive functions
28. Distinguish between Numeric array, Associative array and Multidimensional array with suitable examples
29. Explain how base class methods and properties are accessed?
Give example.
30. a) Explain about session HTTP management in PHP.
b) How to destroy cookies in PHP?
31. With the help of an example explain each step for accessing the data from a MySQL database table.
32. Explain the process of uploading Files with HTTP.