E.M.G. YADAVA WOMENS COLLEGE, MADURAI -14.
(An Autonomous Institution – Affiliated to Madurai Kamaraj University)
Re –accredited (3rd Cycle) with Grade A+ and CGPA 3.51 by NAAC
CBCS
DEPARTMENT OF COMPUTER APPLICATIONS-UG
ADD ON COURSE
(w.e.f. 2021 – 2022 onwards)

Open Source Technology

1. This Course is offered for the first year Students

2. Period of study : I Semester

COURSE STRUCTURE

Contact Hours: 30 hrs.

Credit: 1

S.No.	Sem.	Subject Code	Title of the Paper
1.	I	21JAOC	**Theory:** Open Source Technology
2.	I	21JAOCP	**Practical:** Open Source Technology Lab

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Title of the Paper : **Open Source Technology**
Semester : **I**   **Contact Hours: 30**
Sub Code : **21JAOC**   **Credit : 1**
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Objective:

This course is to enable the students to learn about Evaluation of PHP, Basic Syntax, Defining variable and constant, PHP Data type, Operator and Expression.

Unit-I:

Understanding the Languages of the Web: Understanding How the Web Works-Understanding Web Page Languages-Understanding the Language of Web Servers - **Installing PHP:** Checking the PHP Installation-Obtaining PHP-Installing PHP-Configuring Your Web Server for PHP-Configuring PHP-Testing PHP-Troubleshooting.

Unit-II:

Understanding PHP Basics: Writing PHP Code-Displaying Content in a Web Page-Using PHP Variables-Using PHP Constants-**Building PHP Scripts:** Setting Up Conditions-Using Conditional Statements-Repeating Actions with Loops.

Unit-III:

PHP and Your Operating System: Managing Files-Using Operating System Commands-Using FTP-Reading and Writing Files-Exchanging Data with Other Programs-Using SQLite.

Unit-IV:

Object-Oriented Programming: Introducing Object-Oriented Programming-Developing an Object-Oriented Script-Defining a Class-Using a Class in a Script-Using Abstract Methods in Abstract Classes and Interfaces.

Unit-V:

Considering PHP Security: Securing the Server-Securing Apache-Setting Security Options in php.ini-Handling Errors Safely-Sanitizing Variables-**Tracking Visitors with Sessions:** Understanding Sessions and Cookies-Using Sessions to Pass Data.

Text Book:

Janet Valade, *PHP & MySQL,Java Script & HTML5 All-in-one For Dummies*, A Wiley Brand,4th edition, 2018.

Chapters:

    Unit-I : Book I: Getting Started with PHP & MySQL

                Chapter 1,3

   Book IV: PHP

    Unit-II : Chapter 1,2

    Unit-III : Chapter 3

    Unit-IV : Chapter 4

    Unit-V : Chapter 5,6

Reference Books :

1. Jamie Chan, *PHP: Learn PHP in One Day and Learn It Well*, 2nd Edition 2020.
2. Lokesh Gupta,*CodeIgniter: Web Framework (PHP Book 1),* Oxford University Press, 2nd edition 2018.
3. Steven Holzner*, PHP: The Complete Reference*, McGraw Hill Education, 2nd edition, 2017.
4. Code Well Academy, *PHP: Programming*, Pearson Education, 1st Edition 2015.
5. Pradeep Kumar, *Cracking PHP Interviews*, Pearson Education, 2nd Edition 2019.

PRACTICALS

Title of the Paper : **Open Source Technology**

Subject-Code : **21JAOCP**

List of Programs:

1. Program using String.

2. Program using PHP Time zone

3. Program using Sorting Array.

4. Program using Global Array

5. Program using Function.

6. Program for reading data in Web pages.

7. Program using browser handling Power.

8. Program using Oops concept.

9. Program using File.

10. Program using Form Validation.

11. Program using PHP XML Parser

12. Program using   PHP Filter

13. Program using MySQL Database Creation.

14. Program using MySQL Database table

15. Program using Session , Cookies and FTP.

16. Program using Web application Security.