UNIVERSITY OF MADRAS
B.Sc. DEGREE COURSE IN COMPUTER SCIENCE
SYLLABUS WITH EFFECT FROM 2020-2021

BCE-CSC07

CORE-VII: WEB TECHNOLOGY
(Common paper to B.Sc.Software Application)

II YEAR / IV SEM

OBJECTIVES:
- To use PHP and MySQL to develop dynamic web sites for user on the Internet
- To develop web sites ranging from simple online information forms to complex e-commerce sites with MySQL database, building, connectivity, and maintenance

OUTCOMES:
- Understand the general concepts of PHP scripting language for the development of Internet websites.
- Understand the basic functions of MySQL database program and XML concepts
- Learn the relationship between the client side and the server side scripts.

UNIT - I
Introducing PHP – Basic development Concepts – Creating first PHP Scripts – Using Variable and Operators – Storing Data in variable – Understanding Data types – Setting and Checking variables Data types – Using Constants – Manipulating Variables with Operators.

UNIT - II
Controlling Program Flow: Writing Simple Conditional Statements - Writing More Complex Conditional Statements – Repeating Action with Loops – Working with String and Numeric Functions.

UNIT - III
Working with Arrays: Storing Data in Arrays – Processing Arrays with Loops and Iterations – Using Arrays with Forms - Working with Array Functions – Working with Dates and Times.

UNIT - IV
Using Functions and Classes: Creating User-Defined Functions - Creating Classes – Using Advanced OOP Concepts. Working with Files and Directories: Reading Files-Writing Files-Processing Directories.

UNIT - V
Working with Database and SQL : Introducing Database and SQL- Using MySQL-Adding and modifying Data-Handling Errors – Using SQLite Extension and PDO Extension. Introduction XML - Simple XML and DOM Extension.

TEXT BOOK:
1. VikramVaswani, "*PHP A Beginner's Guide*", Tata McGraw Hill 2008.

REFERENCE BOOKS:
1. Steven Holzner , "*The PHP Complete Reference*", Tata McGraw Hill, 2007.
2. Steven Holzer , "*Spring into PHP*", Tata McGraw Hill 2011, 5thEdition.

WEB REFERENCES:
- https://www.w3schools.com/php/
- https://www.phptpoint.com/php-tutorial-pdf/
- http://www.xmlsoftware.com/