

**II YEAR – III SEMESTER
COURSE CODE: 7MCE3C2**

CORE COURSE-XI–PROGRAMMING IN PHP

Unit I Introduction

The Origin of PHP-PHP is better than Its alternatives-How PHP works with the Web Server-Hardware and Software requirements and installation-PHP Pros and Cons-PHP: past, present and future (PHP 3.0, PHP 4.0, and PHP 5)-Strength of PHP **Basic PHP Development**-How PHP scripts work-Basic PHP syntax-PHP variables-PHP data types-Displaying type information-Testing for a specific data type-Operators-Variable manipulation-Dynamic variables-String in PHP **Control Structures**-The if statement-Using the else clause with if statement, multiple if, nested if-The switch statement-Using the ? Operator- Summary

Unit II Arrays

Single-Dimensional Arrays-Multidimensional Arrays-Casting Arrays-Associative arrays-Accessing arrays-Getting the size of an array-Looping through an array-Looping through an associative array- Examining arrays-Joining arrays-Sorting arrays- Sorting an associative arrays **Loops**-The while statement-The do while statement-The for statement-Break & continue Nesting loops-For each loops **Functions**-Introduction of functions -**PHP Library Function**-Array functions-String functions-Date and time functions-Other important functions-**User Defined Function**-Defining a function with parameters and without parameters-Returning value from function-Dynamic function calls Accessing variable with the global statement-Function calls with the static statement-Setting default values for arguments-Passing arguments to a function by value-Passing arguments to a function by reference

Unit III Working With the File System

Creating and deleting a file-Reading and writing text files Working with directories in PHP-Checking for existence of file-Determining file size-Opening a file for writing, reading, or appending-Writing Data to the file-Reading characters **Working With Forms**-Forms-Super global variables-The server array-A script to acquire user input-Importing user input -Accessing user input-Combine HTML and PHP code-Using hidden fields -Redirecting the user - File upload and scripts .

Validation-Server side validation - Client side validation (Javascript) Working With Regular Expressions.

Unit IV Classes And Objects

Introduction of Objects oriented programming Define a class-Creating an object-Object properties-Object methods-Object constructors and destructors Class constants, Access modifier, Class inheritance-Abstract classes and methods-Object serialization Checking for class and method existence-Exceptions-Summary **Introduction To Database**-Introduction to SQL-Connecting to the MYSQL-Database creation and selection-Database table creation, update table structure-insert, update, delete data to a table-Fetch data from table, Acquiring the value, Joins, sub query-Finding the number of rows-Executing multiple queries- **Cookies**-The anatomy of a cookie-Setting a cookie with PHP-Deleting a cookie-Creating session cookie-Working with the query string-Creating query string

Unit V Session

What is session-Starting a session-Working with session variables -Destroying session-Passing session Ids-Encoding and decoding session variables **Disk Access, I/O, And Mail**-File upload-File download-Environment variables-E-mail in PHP-Random numbers **AJAX (Asynchronous JavaScript and XML)**-Introduction to AJAX-Introduction to XMLHttpRequest Object-Method and Properties of XMLHttpRequest-Application of AJAX in web application

Books for Reference:

1. **David Sklar, Nathan Torkington**, "*Learning PHP 5*", 2004, O'Reilly.
2. **W. Jason Gilmore**, "*Beginning PHP and MySQL 5*", 2006 2nd edition, Apress
3. **Kevin Yank**, "*Build Your Own Database Driven Web Site Using PHP & MySQL*" 2011, 4th edition, Sitepoint.
4. **Ahsanul Bari**, "*Cake Php Application Development*", 1st edition, 2008, Packet publishing ltd.

E-References:

1. www.w3schools.com/php
2. php.net/downloads.php

