INT220: SERVER SIDE SCRIPTING

Course Outcomes: Through this course students should be able to

CO1 :: Understand process of executing a PHP script on a web server.
CO2 :: Use sessions and cookies to store users information.
CO3 :: Use the methods for dealing with form-based data and how they are accessed inside a PHP script.
CO4 :: Validate input from user before sending it to the database using PHP.
CO5 :: Develop a dynamic and responsive website with database connectivity using MySQL and PHP.
CO6 :: Construct PHP programs that use various PHP library functions that manipulate files and directories.

Unit I	**PHP Fundamentals :** PHP, MySQL and XAMPP Installation, PHP Basic Syntax, PHP Data Types, PHP Variables, PHP Constants, PHP Expressions, PHP Operators, PHP Control Structures, PHP Loops
Unit II	**PHP Arrays and Functions :** PHP Enumerated Arrays, PHP Associative Arrays, PHP Multi-Dimensional Arrays, PHP Functions, Syntax, Arguments and Variables, References, Pass by Value & Pass by references, Return Values, Variable Scope, PHP include() and PHP require()
Unit III	**PHP Forms :** PHP Form handling, PHP GET and POST, PHP Form Validation, PHP Form Sanitization
Unit IV	**PHP Cookies, Sessions and Strings Handling :** PHP Cookie Handling, PHP Session Handling, PHP Login Session, Strings and Patterns, Matching, PHP Sending Emails, PHP File Uploading, PHP Filters, PHP Error Handling
Unit V	**Object Oriented Programming in PHP :** Defining PHP Classes, Creating Objects in PHP, Calling Member Functions, Constructor Functions, Inheritance, Function Overriding, Interface, Abstract Classes
Unit VI	**Basic MySQL and SQL Queries :** Database Basics, Indexes, PHP MyAdmin, Connect & Pconnect, MySQL Create, MySQL Insert, MySQL Select, MySQL Update, MySQL Delete, MySQL Truncate, MySQL Drop, WHERE condition, Order By and Group By, Having, LIKE, AND OR operators, SQL functions AVG, COUNT, SUM, MIN, MAX, LCASE, UCASE

Text Books: PROGRAMMING PHP by KEVIN TATROE, O'REILLY, 3rd Edition.

References: PHP: THE COMPLETE REFERENCE by STEVEN HOLZNER, MCGRAW HILL EDUCATION, 1st Edition.

PHP AND MySQL WEB DEVELOPMENT: A BEGGINER'S GUIDE by MARTY MATTHEWS, MCGRAW HILL EDUCATION, 1st Edition.

List of practical

1. Installation and configuration of XAMPP Web Server, PHP and MySQL.
2. Use data types of PHP including String, Integer, Float, Boolean, Array, Object and Resource.
3. Use Constants in PHP and making them global.
4. Use Various types of operators including Arithmetic, Assignment, Comparison, Increment/Decrement, Logical, String and array operators.
5. Use PHP control structures - if, if...else, if...elseif....else, switch statement and Loops.
6. Create PHP arrays, their indexing and get the length using count(), associative Arrays and how to loop through an associative array.
7. Implement the concept of two-dimensional arrays.
8. Create a user defined function in PHP, PHP function arguments, various types for passing arguments in functions- call by value, call by reference.
9. Use of PHP include and require statements.
10. Design HTML forms with PHP including validations using GET and POST.
11. Use the concept of PHP cookies, sessions and strings handling including filter functions.
12. Use object oriented concepts in PHP
13. Use the file handling functions.
14. Design a Web Page with database connectivity using MySQL and PHP.