



SEMESTER – VI

BRANCH	SUBJECT TITLE	SUBJECT CODE
COMPUTER SCIENCE (MAJOR)	PHP & MySQL (THEORY)	CSM1-161

Course Learning. Outcomes(CLO) - After completing this course student shall be able to:

- Discover how the web works, what makes web sites work.
- Implement simple and impressive design techniques, from basics till advanced to focus on goal oriented and user centric designs
- Use Server Side Scripting
- Implement concept of data persistence.
- Apply skills to program logic using PHP and handle data using MySQL
- Develop dynamic websites using PHP & MySQL.

CONTENT

Unit - 1

Introduction to internet & World Wide Web, Internet Addressing, Browsers, URL, Web Development, Domain Names-Basic concepts.

HTML.History of HTML, HTML working, Structure of HTML documents, Tags and attributes, Tag vs. element. HTML. Basic tags, Basic formatting tags, HTML, color coding, Lists, Images, Tables and Hyperlink.

Unit - 2

Grouping-Using Div and Span tags for grouping. HTML Forms-input, textarea, button, select, label. HTML Headers-Title, Meta, Base, Link, Style, Script. CSS - Basic Concept of CSS, Benefits of CSS, Deprecated HTML Tags, CSS Syntax. CSS Selectors - Based on tag name, Id, Class. CSS Types - Inline, Internal, External, CSS Properties-Background, Text, Fonts, List, Tables, Border, Margin, Padding, Float, Position.

Unit - 3

Scripting: Client Side vs. Server Side.

JavaScript: introduction, Syntax review, keywords, variable declaration, data types, expressions & operators, using comments.



Interacting with users Creating alert dialogs, prompts, getting confirmations. from users, understanding functions.

BASICS OF PHP: Introduction to PHP, what does PHP Do", Object Oriented Programming with PHP, language basics, installation of XAMPP/LAMP, syntax, comments, variables, constants and data types, expressions and operators, flow control statements, including html code in PHP, embedding PHP in web pages.

Unit - 4

FUNCTIONS & STRINGS in PHP: Defining a function, Calling a function, variable scope, function parameters, return values, predefined functions. Strings: Creating & accessing string, searching and replacing strings, encoding and escaping, comparing strings, formatting strings, regular expression.

Data & File Handling: PHP Forms: \$ GET, S POST, S REQUEST, \$ FILES, \$ SERVER, SGLOBALS, \$ ENV, input/output controls, validation, Cookies and Sessions.

Unit - 5

File Handling: File and directory, open, close, read, write, append, delete, uploading and downloading files. File exists, File Size, Rename. Reading and display all/selected files present in a directory.

MYSQL AN OVERVIEW: Introduction, phpMyAdmin, Entering queries, Creating and using a database, Creating and selecting a database, creating a table, loading data into a table, Retrieving information from a table, selecting all data, selecting particular rows, selecting particular columns, sorting, date, calculations, working with NULL, values, pattern matching, counting rows, using more than one tables

MYSQL DATABASES IN PHP: Introduction, connecting to a MySQL database, VII querying the database, Retrieving and displaying the results, modifying data and deleting data through front end. Designing applications using PHP & MySQL.

List of Practicals -

1. Create an HTML. file (eg. first_page.html) that specifies a page that contains a heading and two paragraphs of text. As the texts in the heading and paragraphs you can use any texts you like
2. Design a home page which displays information about your college department using paragraph and list tags. Insert images also.
3. Create 3 Hyperlinks in home page connecting it to 3 different pages.
4. Create 3 hyperlinks in a page, which jumps to 3 different headings on same



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5. Design a Registration form in HTML using HTML forms. Apply CSS on web page and various form controls.
 6. Implement javascript validation on a sign-up form. Organize the text and form controls within <table>, apply rowspan and colspan attributes.
 7. Design a web-page whose content can be changed using JavaScript events.
 8. Implement CSS backgrounds and borders in a web-page
 9. Create a simple HTML form and accept the user name and display the name through PHP echo statement.
 10. Write a PHP script to demonstrate arithmetic operators, comparison operator, and logical operator.
 11. Write PHP Script to input marks, generate result and display grade.
 12. Write PHP Script for addition of two 2x2 matrices.
 13. Write PHP script to obtain factorial of a number using function
 14. Write PHP script to demonstrate string, date and math function.
 15. Create student registration form using text box, check box, radio button, select, submit button. And display user inserted value. in new PHP page.
 16. Write two different PHP script to demonstrate passing variables through a URL
 17. Write two different PHP script to demonstrate passing variables with sessions.
 18. Write PHP script to demonstrate passing variables with cookies.
 19. Write a program to keep track of how many times a visitor has loaded the page.
 20. Write PHP script to demonstrate exceptional handling.
 21. Write a PHP script to connect MySQL server from your website.
 22. Write a program to read customer information like cust no, cust name, Item_purchase, and mob_no, from customer table and display all these information in table format on output screen.
 23. Write a program to edit name of customer to "Bob" with cust no-1, and to delete record with cust no-3.
 24. Write a program to read employee information like emp no, emp name, designation and salary from EMP table and display all this information using table format.
 25. Create a dynamic web site using PHP and MySQL.