

**Objective(s)**

This course benefits the students to effectively learn and use PHP and MySQL in creating advanced web applications. In this course, student learns PHP scripting with file handling, database management, session & cookie management, AJAX and Content Management System concept.

**UNIT I****Fundamentals of PHP**

PHP Installation, Basics of PHP, Variables, Operators, Control structure, Creating arrays, Multi dimensional arrays, Navigating arrays, Manipulating keys, User defined function, Function scope, Function arguments and return values

**UNIT II****Working with forms, Built-in Functions**

Global and environmental variable, Accessing input from various elements of form, Get and Post method Built-in Functions: Introduction to string and String functions, Variable related Functions, Array Related Functions, Math Functions, Date & Time Functions, Miscellaneous Functions.

**UNIT III****Saving State and File handling**

Saving state in PHP: Setting a cookie, Deleting a cookie, Creating session cookie, Session function, Session variables etc. File manipulation: Testing files, Opening files, closing files, Reading a file, writing to a file, File Uploading, GD Library functions.

**UNIT IV****PHP Database Connectivity**

Introduction to MySQL, DML and DDL operation of MySQL using phpMyAdmin, Principles of database programming from PHP, Creating tables, Adding and changing information, Retrieving information from a table and reporting it to a web page, Deleting information and tables, Avoiding potential problems by managing quotes and backslashes in data, server side validation using database.

**UNIT V****Advance PHP**

Introduction of AJAX, AJAX with PHP, JQuery Introduction, JQuery with PHP, Introduction to CMS, Wordpress [Introduction & Installation]

**Practical(s)**

1. Write a PHP code to read form submitted data using GET and POST method.
2. Write a PHP code using Form Element such as Textbox, button, radio, checkbox and select.
3. Write a PHP code to read & write file content.

4. Write a PHP code to store user selected font, color and style in cookie variable. When user revisit the web page than content display in selected font, color and style.
5. Write a PHP code to read and write Session Variable.
6. Write a PHP code to read and write text file.
7. Write a PHP code to file uploading.
8. Write a PHP code to create captcha code using GD library function.
9. Write a PHP code to display, add, update and delete operation for MySQL table.
10. Write a PHP code for User Authentication. If user is Authenticated user then display welcome page else display same page with “Invalid User name and Password” message. Username and Password available in USERLIST table.
11. Write a AJAX code with PHP to display information in SPAN area.
12. Write a AJAX code with PHP to fill combo box.
13. Simple form design using JQuery.
14. Program with JQuery and PHP.
15. Develop a website using CMS.

**Reference Book(s)**

1. Beginning PHP and MySQL By W. Jason Gilmore
2. Beginning AJAX with PHP By Lee Babin
3. PHP Manual