

PHP Course Content

1. Introduction to PHP

- What is PHP?
- History and evolution of PHP
- PHP vs. other server-side languages
- Setting up the development environment (XAMPP, WAMP, MAMP)

2. Basics of PHP

- Syntax and basic constructs
- PHP tags and comments
- Variables and data types
- Constants
- Operators (arithmetic, comparison, logical, etc.)

3. Control Structures

- Conditional statements (if, else, switch)
- Loops (for, while, do-while, foreach)
- Break and continue statements

4. Functions

- Defining and calling functions
- Function parameters and return values
- Variable scope
- Built-in functions vs. user-defined functions
- Anonymous functions and closures

5. Arrays

- Indexed arrays and associative arrays
- Array functions (count, sort, merge, etc.)
- Multidimensional arrays

6. Strings

- String manipulation functions (length, substring, replace, etc.)
- String interpolation
- Regular expressions in PHP

7. Working with Forms

- HTML forms and PHP

- GET and POST methods
- Validating form data
- Sanitizing input

8. Sessions and Cookies

- Understanding sessions and cookies
- Setting, getting, and deleting cookies
- Using sessions for user authentication

9. File Handling

- Reading from and writing to files
- Uploading files
- File permissions

10. Introduction to Databases

- Overview of MySQL
- Connecting PHP to MySQL
- Basic CRUD operations (Create, Read, Update, Delete)
- Using prepared statements to prevent SQL injection

11. Error Handling and Debugging

- Types of errors in PHP
- Error reporting and logging
- Exception handling with try-catch

12. Object-Oriented Programming (OOP) in PHP

- Introduction to OOP concepts (classes, objects, inheritance, polymorphism)
- Defining classes and objects
- Using constructors and destructors
- Visibility (public, private, protected)