

1. Introduction to Web Development

- A. Overview of web technologies
- B. Client–server architecture
- C. Static vs dynamic websites
- D. Introduction to PHP and its applications
- E. PHP environment setup (XAMPP / WAMP / LAMP)

2. PHP Basics

- A. PHP syntax and script structure
- B. Variables, constants, and data types
- C. Operators and expressions
- D. Comments and coding standards
- E. Embedding PHP in HTML

3. Control Structures

- A. Conditional statements (if, if-else, switch)
- B. Looping structures (for, while, do-while, foreach)
- C. Break and continue statements
- D. Basic logic building with PHP

4. Functions & Arrays

- A. User-defined and built-in functions
- B. Function parameters and return values
- C. Indexed and associative arrays
- D. Multidimensional arrays
- E. Array functions

5. Forms & User Input Handling

- A. HTML forms and PHP integration
- B. GET and POST methods
- C. Form validation techniques
- D. Handling user input securely
- E. File upload and download

6. String & File Handling

- A. String manipulation functions
- B. Date and time functions
- C. File handling (read, write, append)
- D. File system operations
- E. Error handling basics

7. PHP & MySQL Database Integration

- A. Introduction to MySQL
- B. Database design basics
- C. Connecting PHP with MySQL
- D. CRUD operations using PHP
- E. Prepared statements and SQL injection prevention

8. Session & Cookie Management

- A. Cookies and their usage
- B. Sessions and session handling
- C. User authentication and login systems
- D. Logout and session security

9. Object-Oriented PHP

- A. Classes and objects
- B. Constructors and destructors
- C. Inheritance and polymorphism
- D. Encapsulation and abstraction
- E. Namespaces and autoloading

10. Security & Best Practices

- A. PHP security fundamentals
- B. Input validation and sanitization
- C. Password hashing techniques
- D. Handling common vulnerabilities
- E. Secure coding practices

11. Framework & Modern PHP Overview

- A. Introduction to MVC architecture
- B. Overview of PHP frameworks (Laravel)
- C. Routing and controllers
- D. Composer and dependency management

Mini Projects:

- Dynamic website development
- User registration and login system
- CRUD-based web application
- PHP-MySQL based mini project
- Deployment of PHP application



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