



# AMA COMPUTER ACADEMY

## PHP



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## OCOC PHP (120 hours)

### Course Overview:

This course provides an in-depth exploration of PHP, a widely-used open-source server-side scripting language. Learners will learn PHP from its fundamentals to more advanced concepts, including Object-Oriented Programming (OOP), MySQL integration, and related web technologies like HTML, CSS, JavaScript, and Ajax. The course is designed to help students gain hands-on experience by creating dynamic web applications, understand the power of database connectivity, and work on real-world projects.

### Objectives of the Course:

1. To understand the history, evolution, and current version of PHP.
2. To learn the fundamentals of PHP, including operators, control structures, and data handling.
3. To apply Object-Oriented Programming concepts in PHP.
4. To gain proficiency in using MySQL to build dynamic, data-driven web applications.
5. To understand and apply advanced PHP concepts such as Cookies, Sessions, Namespaces, and REST APIs.
6. To build and develop web pages using HTML, CSS, and JavaScript integrated with PHP.
7. To develop complete dynamic projects in PHP using best practices.

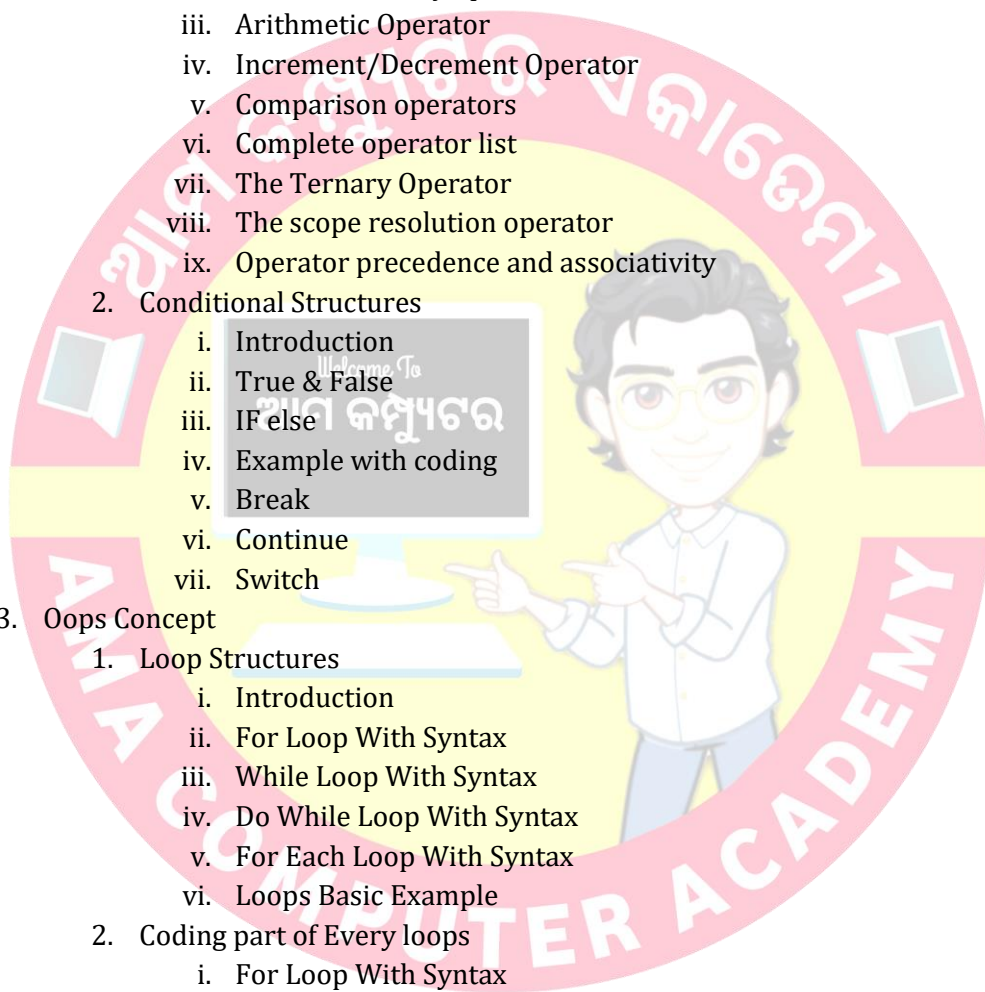
### Outcomes of the Course:

1. Demonstrate a comprehensive understanding of PHP and its evolution.
2. Use PHP to create, manage, and manipulate server-side programming.
3. Build dynamic, data-driven websites with PHP and MySQL.
4. Apply Object-Oriented Programming principles to enhance code maintainability and reusability.
5. Develop web applications that incorporate client-side scripting with HTML, CSS, and JavaScript.
6. Design and deploy real-world PHP projects incorporating SQL databases and data handling.
7. Utilize PHP for server management, CRUD operations, and secure user authentication.

### Course Syllabus:

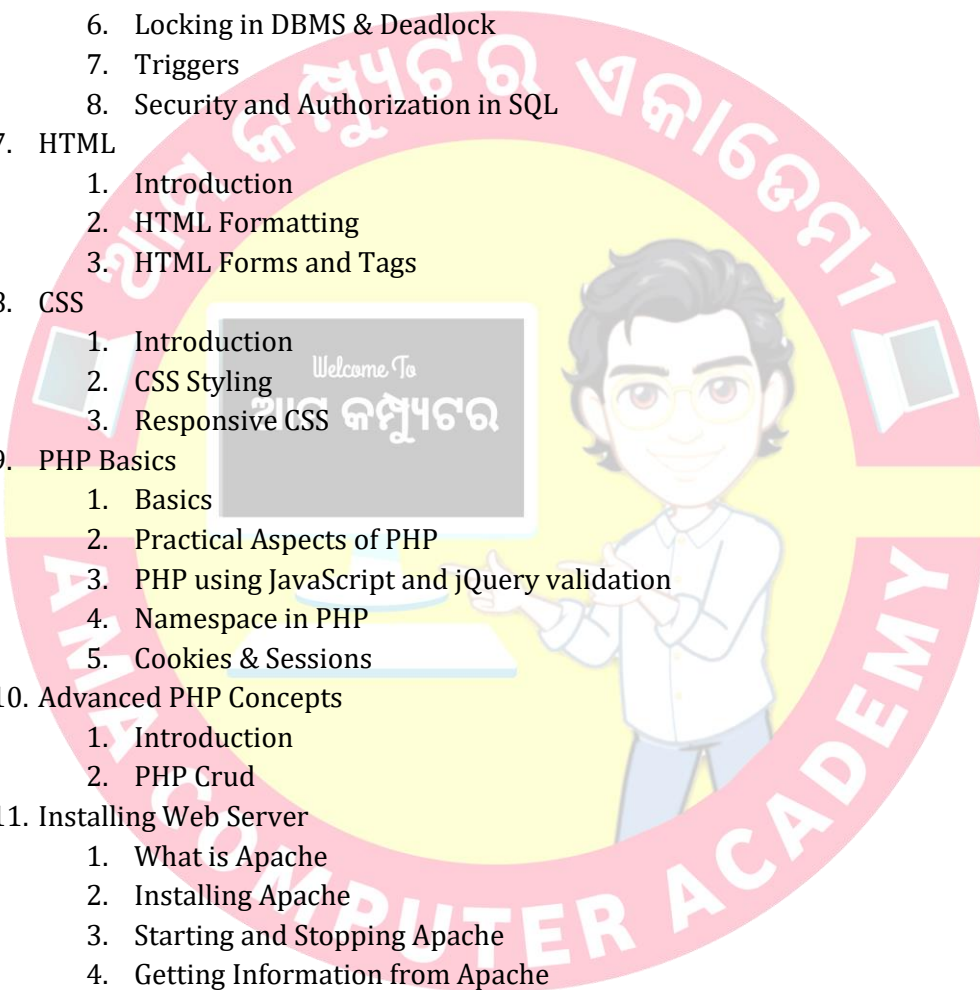
1. Introduction to PHP

1. History
  2. Background
  3. Early versions of PHP
  4. Current release
  5. Upgrading from PHP 3
  6. Upgrading from PHP 4
  7. The creators of PHP
2. Control Structures
    1. Operators
      - i. Introduction
      - ii. Shorthand unary operators
      - iii. Arithmetic Operator
      - iv. Increment/Decrement Operator
      - v. Comparison operators
      - vi. Complete operator list
      - vii. The Ternary Operator
      - viii. The scope resolution operator
      - ix. Operator precedence and associativity
    2. Conditional Structures
      - i. Introduction
      - ii. True & False
      - iii. IF else
      - iv. Example with coding
      - v. Break
      - vi. Continue
      - vii. Switch
  3. Oops Concept
    1. Loop Structures
      - i. Introduction
      - ii. For Loop With Syntax
      - iii. While Loop With Syntax
      - iv. Do While Loop With Syntax
      - v. For Each Loop With Syntax
      - vi. Loops Basic Example
    2. Coding part of Every loops
      - i. For Loop With Syntax
      - ii. For loop in searching of Array
      - iii. For loop in Sorting of Array
      - iv. While Loop With Syntax
      - v. Do While Loop With Syntax
      - vi. For Each Loop With Syntax
    3. Introduction to Arrays
      - i. Introduction
      - ii. Types Of Arrays
      - iii. Single Dimensional Array
      - iv. Multidimensional Array
    4. Passing Values



- i. Introduction
  - ii. Parameters
  - iii. Passing by reference
- 5. Returning Values
  - i. Introduction
  - ii. Default Parameter
  - iii. Returning By Reference
  - iv. Example with Coding
- 6. Arrays in Detail
  - i. Insertion in arrays
  - ii. Deletion in Arrays
  - iii. Sorting Arrays
  - iv. Traversing in arrays
  - v. Transpose in arrays
  - vi. Merging in arrays
- 7. Linked List
  - i. Introduction
  - ii. Inserting in linked list
  - iii. Deletion in linked list
  - iv. Queue
  - v. Enque and Deque
- 8. Classes and Objects
  - i. Introduction
  - ii. Defining Class
  - iii. Creating A class
  - iv. Object
  - v. How to Use object
- 9. Advanced Oops Concepts
  - i. Polymorphism
  - ii. Data Abstraction
  - iii. Constructor
  - iv. Destructor
- 10. Inheritance
  - i. Introduction
  - ii. Iterators
  - iii. Friend Function
- 4. Setting up SQL server
  - 1. Introduction
  - 2. Creating the Public HTML Pages
  - 3. Creating the Database and its Tables
  - 4. Example with coding
  - 5. User Login Authentication
  - 6. Example with Coding
- 5. SQL Concepts
  - 1. MYSQL Database
  - 2. Need of SQL
  - 3. Introduction to Database

4. SQL Commands
5. Joins
6. Data Models
7. Building Blocks of Database
8. Relationship and Data Abstraction
6. Advanced SQL
  1. Keys
  2. Data Abstraction in SQL
  3. Views in SQL
  4. Normalization
  5. Transaction Control
  6. Locking in DBMS & Deadlock
  7. Triggers
  8. Security and Authorization in SQL
7. HTML
  1. Introduction
  2. HTML Formatting
  3. HTML Forms and Tags
8. CSS
  1. Introduction
  2. CSS Styling
  3. Responsive CSS
9. PHP Basics
  1. Basics
  2. Practical Aspects of PHP
  3. PHP using JavaScript and jQuery validation
  4. Namespace in PHP
  5. Cookies & Sessions
10. Advanced PHP Concepts
  1. Introduction
  2. PHP Crud
11. Installing Web Server
  1. What is Apache
  2. Installing Apache
  3. Starting and Stopping Apache
  4. Getting Information from Apache
  5. Configuring Apache
12. JavaScript
  1. JavaScript
  2. JavaScript Functions
13. Practical XML using PHP
  1. Practical XML EXPAT AND DOM
14. AJAX in PHP
  1. Ajax in PHP (pagination)
15. Miscellaneous Concepts in PHP
  1. PHP REST API
  2. PHP Methods



16. PHP based Project

1. PHP JSON
2. E-Commerce Project based on PHP



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