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## PHP Syllabus (Hinglish)

### Module 1: Introduction to PHP

#### 1. PHP Introduction

- PHP kya hai?
- PHP ka use kahan hota hai?
- Web development mein PHP ka role
- PHP Installation (XAMPP / WAMP / MAMP setup)

#### 2. Basic Syntax and Structure

- PHP tags (<?php ?>)
- PHP comments (//, /\* \*/)
- Basic structure: Variables, Data Types (String, Integer, Float, Boolean, Array)
- Echo vs Print
- PHP Statements, Semicolons, Line breaks

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### Module 2: Variables and Operators

#### 1. Variables

- Variables ka declaration (`$variable_name`)
- Variable types: Local, Global, Superglobals
- Constants in PHP (`define()`, `const`)

#### 2. Operators

- Arithmetic Operators (+, -, \*, /, %)
- Assignment Operators (=, +=, -=, \*=)
- Comparison Operators (==, !=, >, <, >=, <=)
- Logical Operators (&&, ||, !)

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- Increment/Decrement Operators (++, --)
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## Module 3: Control Structures

### 1. Conditional Statements

- if, else, elseif, switch
- Ternary Operator (?:)

### 2. Loops

- for, while, do-while
- foreach loop (especially for arrays)

### 3. Break, Continue, and Exit

- Use of break, continue, exit(), and die()
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## Module 4: Functions

### 1. Defining Functions

- Function syntax: `function name() { }`
- Function with arguments and return values
- Default Parameters

### 2. Built-in Functions

- String Functions (`strlen()`, `substr()`, `str_replace()`)
  - Array Functions (`count()`, `array_push()`, `array_merge()`)
  - Date and Time Functions (`date()`, `time()`, `strtotime()`)
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## Module 5: Arrays

### 1. Indexed Arrays

- Indexed array ka creation aur use
- Traversing through loops (e.g., foreach)

### 2. Associative Arrays

- Creating key-value pairs
- Accessing values with keys

### 3. Multi-dimensional Arrays

- Creating multi-dimensional arrays
- Nested loops to access values

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## Module 6: Working with Forms and User Input

### 1. Form Handling in PHP

- GET vs POST methods
- Form validation
- \$\_GET, \$\_POST, \$\_REQUEST superglobal arrays
- Sanitizing user input

### 2. File Uploads

- File upload forms
- Handling file uploads in PHP (\$\_FILES)

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## Module 7: Working with Databases (MySQL)

### 1. Introduction to MySQL

- MySQL database setup

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- Connecting to a database with PHP (`mysqli_connect()`)

## 2. CRUD Operations

- Create, Read, Update, Delete (CRUD)
- Writing SQL queries in PHP
- INSERT INTO, SELECT, UPDATE, DELETE

## 3. Prepared Statements

- Preventing SQL Injection
- Using prepared statements for security

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## Module 8: Advanced PHP Topics

### 1. Sessions and Cookies

- Difference between sessions and cookies
- Creating and managing sessions (`session_start()`)
- Working with cookies (`setcookie()`)

### 2. Object-Oriented Programming (OOP) in PHP

- Classes and Objects
- Constructor and Destructor methods
- Inheritance, Polymorphism, and Encapsulation
- Visibility (public, private, protected)
- Static methods and properties

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## Module 9: Error Handling and Debugging

### 1. Error Types in PHP

- Notices, Warnings, and Errors

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- Handling errors with `try-catch`
- Custom error handling (`set_error_handler()`)

## 2. Debugging Techniques

- Using `var_dump()` and `print_r()`
- Enabling error reporting (`error_reporting(E_ALL)`)

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## Module 10: PHP Security Best Practices

### 1. Data Sanitization and Validation

- `htmlspecialchars()`, `strip_tags()`, `filter_var()`
- Validating email, URL, and other data

### 2. Password Hashing

- Using `password_hash()` and `password_verify()`

### 3. Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF) Prevention

- Basic XSS and CSRF attacks
- Mitigating attacks in PHP

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## Module 11: PHP Frameworks Overview

### 1. Introduction to MVC Architecture

- MVC pattern: Model, View, Controller
- Advantages of MVC

### 2. Introduction to PHP Frameworks

- Laravel, CodeIgniter, Symfony, Yii

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- Basic understanding of how frameworks make development faster and easier

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## Module 12: Project Development

### 1. Developing a Simple Web Application

- Planning and designing a project
- Creating a basic user authentication system (Login/Register)
- Connecting PHP with MySQL for data storage

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## Final Project

- Build a complete dynamic website or web application using PHP and MySQL

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## Additional Resources

- **PHP Documentation:** [PHP Manual](#)
- **Online PHP Compiler:** [PHP Fiddle](#)
- **PHP Tutorials:** [W3Schools](#), [TutorialsPoint](#)