

PHP Language Syllabus

- By
GharSeCode (GSC)

Course Title: Programming in PHP

Course By: GSC (Ghar Se Code)

Duration: 3 Hrs

Code Spirit: Scripting Simplicity, Delivering Dynamism.

| Topics | Detailed Overview |
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| Introduction to PHP | What is PHP? History and Evolution Installation & Setup Basic Syntax and PHP Tags Comments Echo vs Print |
| Variables and Data Types | Variable Declaration PHP Data Types (String, Integer, Float, Boolean, Array, Object, NULL) Type Juggling and Type Casting Constants |
| Operators and Expressions | Arithmetic Operators Assignment Operators Comparison Operators Logical Operators Increment/Decrement String Operators |
| Control Structures | Conditional Statements: if, if-else, if-elseif-else Switch Case Loops: while, do-while, for, foreach Break and Continue |
| Functions | Defining and Calling Functions Function Parameters Return Values Variable Scope Built-in Functions User-defined Functions |
| Arrays | Indexed Arrays Associative Arrays Multidimensional Arrays Array Functions (count, sort, array_merge, etc.) |

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| Strings | String Declaration and Initialization String Functions (strlen, strpos, substr, str_replace, etc.) String Interpolation |
| Forms and User Input | GET and POST Methods Form Validation Sanitization and Security |
| File Handling | Opening, Reading, Writing, and Closing Files File Modes (r, w, a, etc.) File Uploading |
| Sessions and Cookies | Understanding Cookies and Sessions Creating and Accessing Destroying Sessions and Cookies |
| Error Handling | Types of Errors Try-Catch Block Custom Error Handling Error Logging |
| Working with MySQL | Connecting to MySQL Database Executing Queries (SELECT, INSERT, UPDATE, DELETE) Fetching Results Closing Connection |
| PHP and HTML Integration | Embedding PHP in HTML Using PHP to Generate HTML Content Template Basics |
| Advanced Topics | Introduction to Object-Oriented PHP Classes and Objects Inheritance and Polymorphism Access Modifiers |