## **✅ PHP Study Checklist**

### **🔰 1. Introduction to PHP**

* What is PHP?
* What Can PHP Do?
* PHP vs Other Languages
* Installing PHP (XAMPP/WAMP/LAMP)
* Your First PHP Script (Hello World)

### **📄 2. PHP Syntax & Basics**

* PHP Syntax Rules (<?php ?>, semicolons)
* PHP Comments
* Echo vs Print
* Variables and Data Types
* Constants

### **🔢 3. PHP Data Types**

* String
* Integer
* Float (Double)
* Boolean
* Array
* Object
* NULL
* Resource

### **🔁 4. Operators**

* Arithmetic Operators
* Assignment Operators
* Comparison Operators
* Increment/Decrement
* Logical Operators
* String Operators
* Array Operators

### **🔃 5. Control Structures**

* if, else, elseif
* switch
* while
* do...while
* for
* foreach
* break and continue

### **🧮 6. Functions**

* Creating Functions
* Function Parameters
* Default Parameters
* Return Values
* Variable Scope
* Include Built-in Functions (like strlen(), strpos(), etc.)

### **🧱 7. Arrays**

* Indexed Arrays
* Associative Arrays
* Multidimensional Arrays
* Array Functions (count(), array\_push(), array\_merge() etc.)
* Looping Through Arrays

### **🗃 8. Forms and User Input**

* PHP Form Handling
* $\_GET vs $\_POST
* $\_REQUEST
* Validate Form Data
* Sanitize User Input

### **🗂 9. Superglobals**

* $\_SERVER
* $\_REQUEST
* $\_POST
* $\_GET
* $\_FILES
* $\_ENV
* $\_COOKIE
* $\_SESSION
* $\_GLOBALS

### **🍪 10. Cookies & Sessions**

* Set and Get Cookies
* Modify and Delete Cookies
* Start a Session
* Store and Retrieve Session Data
* Destroy Session

### **🗃 11. File Handling**

* Open/Read a File
* Write to a File
* Append Data to a File
* Delete a File
* File Uploads
* File Validation

### **💾 12. MySQL Database (with MySQLi or PDO)**

* Connect to Database
* Create Database & Tables
* Insert, Select, Update, Delete Data (CRUD)
* Prepared Statements
* Preventing SQL Injection

### **🧱 13. Advanced PHP**

* PHP OOP Basics (Classes, Objects, Constructors)
* Inheritance
* Interfaces & Traits
* Namespaces
* Exception Handling
* Regular Expressions

### **🛠 14. Useful Built-in Functions**

* String Functions (explode, implode, etc.)
* Date & Time Functions
* Math Functions
* Filter Functions
* JSON Encode/Decode
* cURL Basics

### **🌐 15. PHP with Web Technologies**

* PHP with HTML
* PHP with CSS (Dynamic Styling)
* PHP with JavaScript (AJAX Basics)
* Creating Simple Web Applications

### **🔐 16. Security Essentials**

* Data Sanitization
* Preventing SQL Injection
* Preventing XSS
* Password Hashing (password\_hash(), password\_verify())

### **📁 17. Project Practice**

* Create a wordpress theme from scratch