PHP Complete Course Outline (30 Lectures × 45 min)

Introduction & Basics (Lectures 1-5)

- Lecture 1: Introduction to PHP, History, Installation & Setup
- Lecture 2: PHP Syntax, Variables, Data Types, Constants
- Lecture 3: Operators and Expressions
- Lecture 4: Control Structures – If, Else, Switch, Loops (For, While)
- Lecture 5: Working with Strings and String Functions

Functions & Arrays (Lectures 6-9)

- Lecture 6: Defining and Calling Functions, Function Arguments & Return
- Lecture 7: Built-in and User-defined Functions
- Lecture 8: Arrays – Indexed, Associative, Multidimensional
- Lecture 9: Array Functions, Sorting, and Searching

Form Handling & Validation (Lectures 10-12)

- Lecture 10: Form Submission, GET and POST Methods
- Lecture 11: Validating User Input, Sanitization and Security
- Lecture 12: Handling File Uploads and Form-based Projects

Sessions, Cookies & State Management (Lectures 13-15)

- Lecture 13: Introduction to Sessions and Cookies
- Lecture 14: Setting, Getting, Deleting Cookies & Sessions
- Lecture 15: User Authentication Concepts using Sessions

Working with Files & Directories (Lectures 16-17)

- Lecture 16: Reading and Writing Files, File Handling Functions
- Lecture 17: File Upload, Directory Operations, File System Security

Object-Oriented PHP (Lectures 18-21)

- Lecture 18: Classes, Objects, Properties, and Methods
- Lecture 19: Inheritance, Access Modifiers, and Constructors
- Lecture 20: Abstract Classes, Interfaces, Traits
- Lecture 21: Magic Methods and Namespaces

Database Connectivity (Lectures 22-25)

- Lecture 22: Introduction to MySQL, Setting up Database
- Lecture 23: CRUD Operations with MySQL & PHP (mysqli & PDO)
- Lecture 24: Prepared Statements & SQL Injection Prevention
- Lecture 25: Working with Joins, Transactions, Stored Procedures

Error Handling & Security (Lectures 26-27)

- Lecture 26: Error and Exception Handling in PHP
- Lecture 27: PHP Security Practices (XSS, CSRF, Input Validation)

Advanced Topics & Frameworks (Lectures 28-30)

- Lecture 28: Working with APIs, JSON, RESTful Services
- Lecture 29: Introduction to PHP Frameworks (Laravel, CodeIgniter)
- Lecture 30: Project Deployment, Version Control, and Best Practices