



## Syllabus: Certificate in PHP

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- **Duration:** 4 Months
  - **Eligibility:** 12th Pass (Basic HTML knowledge recommended)
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### Evaluation Scheme

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- **Full Marks:** 200
  - **Theory:** 100 Marks
  - **Practical/Project Works:** 80 Marks
  - **Internal Assessment/Viva (Oral Test):** 20 Marks
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### Course Syllabus

This course provides a comprehensive introduction to PHP, a popular server-side scripting language, focusing on building dynamic websites and web applications.

#### Module 1: PHP Fundamentals

- Introduction to Server-Side Scripting.
- Setting up a local development environment (XAMPP/WAMP).
- PHP Syntax, Variables, Data Types, and Operators.
- Embedding PHP code within HTML.

#### Module 2: Control Structures & Functions

- Conditional Statements: if, else, elseif.
- Looping Structures: for, while, do-while, foreach.
- User-Defined Functions, Parameters, and Return Values.
- Include and Require statements.

#### Module 3: Handling Web Data

- Working with Arrays: Indexed, Associative, and Multidimensional arrays.
- Handling HTML Forms with GET and POST methods.
- Form Validation and Sanitization.

#### Module 4: State Management & File System

- Working with Sessions and Cookies to manage user state.
- Reading from and writing to files on the server.
- Handling file uploads.



### Module 5: Introduction to MySQL & Database Connectivity

- Basics of Relational Databases and SQL.
- Connecting to a MySQL database with PHP.
- Performing CRUD Operations: Create, Read, Update, Delete data.
- Fetching and displaying data on a web page.

### Module 6: Final Project

- Students will develop a dynamic, database-driven web application.
- **Example Project:** A simple blog, a user registration and login system, or a contact form that stores messages in a database.

