

15 Days (Introduction to PHP + Laravel)

Objective:

- Gain basic knowledge of PHP and an introduction to Laravel for modern web development.

Syllabus:

1. **Day 1-2:** Introduction to Web Development
 - a. Overview of PHP and Laravel.
 - b. Setting up the environment (XAMPP/WAMP, Composer, Laravel installation).
2. **Day 3-6:** PHP Basics
 - a. Variables, data types, and control structures.
 - b. Functions, arrays, and error handling.
3. **Day 7-9:** Working with Databases
 - a. Introduction to MySQL.
 - b. Basic CRUD operations using PHP (MySQLi/PDO).
4. **Day 10-12:** Introduction to Laravel
 - a. Laravel framework overview.
 - b. Directory structure and artisan commands.
5. **Day 13-15:** Hands-On Project
 - a. Create a simple Laravel application (e.g., a task manager).

30 Days (Beginner-Level PHP + Laravel Development)

Objective:

- Build foundational skills in PHP and Laravel for web application development.

Syllabus:

1. **Week 1:** Advanced PHP
 - a. OOP in PHP (classes, objects, inheritance).
 - b. File handling, sessions, and cookies.
2. **Week 2:** Laravel Basics
 - a. Routing and controllers.
 - b. Blade templating engine and basic layouts.
3. **Week 3:** Database and Eloquent ORM
 - a. Database migrations and seeders.

- b. Working with Eloquent ORM for database operations.
- 4. **Week 4: Basic Project**
 - a. Build a basic Laravel CRUD application with authentication.

45 Days (Intermediate-Level PHP + Laravel Development)

Objective:

- Develop dynamic applications with advanced Laravel features.

Syllabus:

1. **Week 1-2: Advanced Laravel Features**
 - a. Middleware and route protection.
 - b. Form validation and error handling.
2. **Week 3: API Development**
 - a. Building RESTful APIs with Laravel.
 - b. Authentication using Passport or Sanctum.
3. **Week 4: Real-Time Features**
 - a. Event broadcasting and notifications.
 - b. Using WebSocket for real-time updates.
4. **Week 5: Intermediate Project**
 - a. Build a blog application with Laravel (backend + frontend).

60 Days (Advanced PHP + Laravel Development)

Objective:

- Master Laravel and PHP for building complex applications.

Syllabus:

1. **Week 1-2: Advanced PHP Concepts**
 - a. Design patterns (MVC, Singleton, Factory).
 - b. Error and exception handling, debugging.
2. **Week 3-4: Advanced Laravel**
 - a. Advanced relationships and querying in Eloquent.
 - b. Queue management and job processing.
3. **Week 5: Testing and Optimization**
 - a. Unit testing with PHPUnit.
 - b. Performance optimization and caching.

4. **Week 6:** Advanced Project
 - a. Build an e-commerce platform with Laravel.