

# Laravel Syllabus

## Section 1: Introduction to PHP (Hypertext Preprocessor) - **10 hrs**

- 1.1 Introduction to PHP (Syntax, Variable and Constant, Data type, Operator and Expression) - 1.5 hr
- 1.2 Control Structure (Conditional Statement and Control loops) - 1.5 hr
- 1.3 Class and Object – 1 hr
- 1.4 Functions - 1 hr
- 1.5 Array – 1 hr
- 1.6 Handling Html Form with PHP – 1 hr
- 1.7 Session and Cookie - 0.5 hr
- 1.8 Database Connectivity with MySql (XAMPP setup) - 1.5 hr
- 1.9 Exception Handling – 1 hr

## Section 2: Introduction to Laravel – **3 hrs**

- 2.1 Introduction to Laravel – 0.5 hr
- 2.2 Composer and Node.js setup – 1 hr
- 2.3 IDE introduction and Laravel friendly IDE – 0.5 hr
- 2.4 Basic concept of URL (IP address, port number, DNS, path) - 1 hr

## Section 3: Starting with Laravel – **4 hrs**

- 3.1 Configuring new Laravel project – 0.5 hr
- 2.2 Artisan CLI – 0.5 hr
- 2.3 Directory Structure – 1 hr
- 2.4 Basic routing – 0.5 hr
- 2.5 Call a controller method from a route – 0.5 hr
- 2.6 Passing variable from controllers to views – 0.5 hr
- 2.7 MVC pattern – 0.5 hr

## Section 4: HTML Template to Laravel Blade Template – **7 hrs**

- 4.1 Executing PHP function in the blade – 1 hr
- 4.2 Rendering of custom blade files – 1 hr
- 4.3 Importing styles and JS and adding assets. - 0.5 hr
- 4.4 Master layout (include, extends and section) - 2 hr
- 4.5 Displaying dynamic variable values – 1.5 hr
- 4.6 Blade control structure – 1 hr

## Section 5: Form handling and validation – **5 hrs**

- 5.1 Request and Response – 0.5 hr
- 5.2 Types of methods (GET, POST, PUT, DELETE) - 1 hr
- 5.3 Creating a form, action and method of form – 1 hr
- 5.4 Form validation with Laravel Validator – 1.5 hr

5.5 Validation error response handling – 1 hr

## Section 6: Database and migration – **6.5 hrs**

6.1 Introduction to migration – 1 hr

6.2 Database define and connectivity – 1 hr

6.3 Artisan migration command, creating a table – 2 hr

6.4 Migration rollback and column add – 1 hr

6.5 Keys (primary and foreign) in migration – 1.5 hr

## Section 7: Basic concept of Eloquent ORM – **6.5 hrs**

7.1 Introduction - 1 hr

7.2 Eloquent ORM INSERT, READ, UPDATE, DELETE – 2.5 hrs

7.3 Models and Relationships – 2 hrs

7.4 Using models in Controllers and render data in view – 1 hr

## Section 8: CMS with Laravel – **3 hr**

8.1 Laravel Auth installation with composer (Route setup, migration run) - 1 hr

8.2 Auth flow study – 1 hr

8.3 Middleware and implementation – 2 hr

8.3 Assignment 1: CRUD operations for managing content of your website

8.4 Assignment 2: Send notifications and emails from your site to the admin after content addition.