

Subject Name: Web application programming part-1

Course code: DSC-C-ANP-231P

Credits:4

Prerequisites: Students should know about the PHP

Objective: The increasing practice of MVC architecture in Web based applications, this course focuses on Advanced PHP concepts and Laravel Framework.

Content:	Credits	Time
Unit1: Introduction of Laravel PHP Framework	01	05 hrs
Installing Laravel		
Artisan CLI (command-line interface)		
Laravel Directory Structure		
Configuring a new Laravel project		
Unit2: Architecture & Basics	01	10hrs
Architecture overview -Basic routing		
Call a controller method from a route		
Passing variables from controllers to views		
CSRF protection		
Validation		
Error handling		
Controller		
Request		
Response		
Views		
Unit3: HTML Template to Laravel Blade Template	01	10hrs
Master layout		
Extending the Master layout		
Displaying Variables		
Blade conditional statements & loops		
PHP functions in blade		
Creating and using a basic view		

Loading a view into another/nested view

Adding assets

Integrating with bootstrap

Section 4: Eloquent ORM (Storing and Using Data)

01

10hrs

Eloquent ORM Models

Naming conventions

Table name and primary keys

Timestamps

Eloquent ORM INSERT, READ, UPDATE, DELETE

Using models in controllers

Displaying data from models in views

Section 5: Creating a registration & user login form

01

05hrs

Artisan command to create inbuilt user register and login system

Authenticating Your Application

Adding Custom Fields to Registration Form

Creating user profile page

References:

1. PHP: The Complete Reference, By Steven Holzner. Publisher: Tata McGraw Hill
2. Laravel: Up and Running, By Matt Stauffer. Publisher: O'Reilly Media
3. Node.js in Action, By Mike Cantelon, Marc Harter, T.J. Holowaychuk, and Nathan Rajlich. Publisher: Manning publications