

Branch Name:	IMCA
Program Code:	CS301
Course Name:	Application Development using LARAVEL Practical
Course Code:	1CS3010502P
Pre-requisite Course:	Programming Skills like PHP, HTML, CSS, Java Script etc.

Course Objectives:

1. To understand the LARAVEL framework.
2. To understand the usefulness of Template Inheritance.
3. To understand how to Implement LARAVEL
4. To understand how to design and develop responsive web application using LARAVEL
5. To be able to design MVC based LARAVEL Application.

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)				
Lecture (L)	Tutorial (T)	Practical (P)	Credit	Theory (Marks)		Practical (Marks)		Total (Marks)
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
-	-	3	3	-	-	25	25	50

LAB/Practical

1. Write a program which autoload php function and classes using composer.
2. Write a program to install, update and delete the dependency using composer.
3. Write a program which demonstrates the use of a pdf library using a composer.
4. Write a program to return a string from the route.
5. Write a program to pass multiple parameters in route and show them on the browser.
6. Write a program to pass data from route to view.
7. Write a program to Create controller, view and define route.php using Laravel.
8. Write a program to pass data from controller to view using Laravel.
9. Write a program which demonstrates the use of Resource controllers using Laravel.
10. Write a program to demonstrate the use of conditional directives in blade template.
11. Write a program to demonstrate the use of loop directives in blade template.
12. Write a program to demonstrate the use of include directives.
13. Write a program to implement Class Base & Anonymous Base component
14. Write a program to create a layout of any website using template inheritance.
15. Write a program to demonstrate the use of middleware.
16. Write a program to demonstrate the use of form in laravel.
17. Write a program to demonstrate the use of form validation methods.
18. Write a program which demonstrates the custom validation message using Laravel.
19. Write a program to demonstrate the use of DB Facades to insert, update, delete and select methods.
20. Write a program to create Registration and login form using Laravel.
21. Write a program to create a Model and controller to fetch records from a database using Laravel.
22. Write a program to implement CRUD operation using Laravel.
23. Write a program to implement online shopping which performs the following tasks using Laravel
 - Manages user profile
 - Manages products
 - Manages categories

Text Books:

LARAVEL Introduction the PHP Framework for Web Artisans: Laravel For Beginners
Beginning PHP, Apache, MySQL web development
Complete Ref. PHP
Laravel (8) PHP Framework Handbook Start from Zero Knowledge Author David S. Thomas

Reference Books:

- Fernando Monteiro, “Hands-On Full-Stack Web Development with Angular 6 and Laravel 5 ”, Packt Publishing, ISBN 9781788833912
- Martin Bean, “Laravel 5 Essentials”, Packet Publishing, ISBN 978-1-78528-301-7
- Web Technologies: HTML, CSS3, JavaScript, JQuery,Ajax, PHP,XML,MVC and LARAVEL), Black Book, 2018, Dreamtech , ISBN 9789386052490
- Matt Stauffer, “LARAVEL Up and Running, A framework for building modern PHP Apps”, 1st Edition, O'REILLY (ISBN: 978-1-491-93608-5)

List of Open Source Software/learning website:

- <https://www.tutorialspoint.com/laravel/index.htm>
<https://www.guru99.com/laravel-tutorial.html>
<https://www.phptpoint.com/laravel-introduction/>
<https://www.coursera.org/specializations/web-design>

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom’s Taxonomy Level
CLO1	Understand Basic Fundamental of Dependency Manager and Framework.	2 Understanding
CLO2	Student Will Able to Develop Web Applications Using Laravel with MVC Pattern	2 Understanding, 6 Creating
CLO3	Implement The Concept and All Command of Composer	3 Applying,
CLO4	Appreciate The Importance of MVC Architecture Pattern in Development of Web Applications.	6 Creating
CLO5	Understand The Concept of Blade Template	2 Understanding,
CLO6	Understand The Concept of Migration, Eloquent ORM And Authentication	2 Understanding, 4 Analyze

Mapping of CLOs with POs & PSOs

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes (PSOs)	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CLO1		H	M		M		L		M		M	L		H
CLO2	L	L	H		M		L		L		M	L	M	L
CLO3			L		M		M	M			M	M	H	L
CLO4		H	M		M		L		M		M	L	H	M
CLO5	L	M	H		L		M		L		L	M	L	M
CLO6	M	L	M		M		M		L		L	M	M	L

H: High, M: Medium, L: Low