PARUL UNIVERSITY - FACULTY OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY
SYLLABUS (PROPOSED) FOR 6ᵗʰ SEM B. TECH. PROGRAMME
Web Development and Framework Laboratory

Type of Course: B.Tech

Prerequisite: Fundamental of PHP and programming

Rationale: Laravel is a free, open-source PHP web framework, created by Taylor Otwell and intended for the development of web applications following the model–view–controller architectural pattern and based on Symfony.

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
				External		Internal			
L	T	P		Theory E	Practical V	Theory M	*C.E	Practical P.A	
0	0	4	2	0	30	0	0	20	50

L- Lectures; **T-** Tutorial/Teacher Guided Student Activity; **P-** Practical; **E** - End Semester Theory Exam; **V -** End Semester Viva Exam; **M –** Mid Semester Exam; **P.A.-** Progressive Assessment;

List of Practical:

1. Write a code to demonstrate Laravel Fundamentals.
2. Demonstrate the practical of prepping the database
    a. Implement Database migration
    b. Implement eloquent models
    c. Implement eloquent relationships
3. Build a REST API with Laravel
4. Implement routing in Laravel
    a. Displaying a view
    b. Authentication
    c. The Task controller
5. Demonstrate how to build layouts and Views
    a. Defining the layout
    b. Defining the child view
6. Implement adding tasks, displaying existing tasks and deleting tasks.
7. Process Payments with Stripe and Laravel Cashier
8. Authentication with Laravel
9. Demonstrate How It's Made: Laravel Router
10. Build a CMS with Laravel

Suggested books:

1. Domain-Driven Laravel, Learn to Implement Domain-Driven Design Using Laravel by Jesse Griffin
2. Laravel, the Ultimate Beginner's Guide to Learn Laravel Step by Step, 2nd Edition by Rufus Stewart
3. Beginning PHP Laravel, Step to step approach to building an Inventory App by Oluwafemi Alofe

Suggested reference books:

4. Laravel 5.8 Learn A to Z | Best PHP Framework, the Best Books for Student and Web Developer by Linus Torvalds
5. Beginning Laravel by James Cooper