



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Integrated MSc, 7th Semester
Branch: Information Technology
Subject Name: Advance Web Development (LARAVEL)
Subject Code: 1370506

Teaching and Examination Scheme

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE(E)	PA (M)	PA (I)	ESE(V)	
3	0	2	4	70	30	20	30	150

Content:

Sr. No.	Content	Teaching Hours	Module Weightage (%)
1.	Introduction to LARAVEL Why Use a Framework? A Short History of Web and PHP Frameworks, What's So Special About Laravel?, How It Works, Why Laravel? Setting Up a Laravel Development Environment: System Requirements Composer, Local Development Environments, Creating a New Laravel Project, Laravel's Directory Structure, Configuration ,An Introduction to Artisan Tool, Basic Artisan commands, Writing custom artisan commands, calling artisan commands in Normal ode, database creation, artisan, Tinker	8	15%
2.	LARAVEL Basics Router and Controllers: Route Definitions, Route Groups, Views, Controllers, Route Model Binding, Route Caching, Form Method Spoofing, CSRF Protection, Redirects, Aborting the Request, Custom Responses Blade Template : Echoing Data, Control Structures (Conditionals & Loops), Template Inheritance, View Composers and Service Injection, Custom Blade Directives Front End Components: Elixir, Pagination, Message Bags, String Helpers, Pluralization and localization	11	25%
3.	Collecting and Validating User Data Injecting a Request Object, Route Data, Uploaded Files, Validation, Form Requests, Eloquent Model Mass Assignment Database Eloquent: configuration, Migration, Seeding, Query Builder, Introduction to Eloquent, Eloquent Events User Authentication and Authorization : The User Model and Migration, Using the auth() Global Helper and the Auth Facade	14	30%
4.	Advanced LARAVEL Request and Response: Laravel's Request Lifecycle, The Request Object, The Response Object, Laravel and Middleware	5	10%
5.	Mail , Notifications Storage and Retrieval: Basic File Uploads and Manipulation Sessions, Cache, Cookies, Full-Text Search with Laravel Scout	7	20%



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Reference Books:

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

Course Outcome:

After learning the course, the students should be able to:

No.	CO statement
CO-1	Students will understand LARAVEL framework.
CO-2	Student will understand how to design and develop responsive web application using LARAVEL.
CO-3	Student will understand database and validation configuration.
CO-4	Student will understand Request and Responses Object Use.
CO-5	Student will understand Storage and Retrieval of user data with help of Cookies and Session.