Module Name (Computer Engineering/IT)	Total Hours
Web Application Development with Open Source	30
Frameworks	

Objectives:

- Develop web applications using LARAVEL Framework
- Storing and using data by creating data tables and raw SQL statements
- Using controllers and routes for APIs and URLs
- Displaying views and loading nested views
- Creating and using composer packages
- Implementing security and sessions effectively using encryption/decryption

Topic	Sub Topic	Hours
Installation	Server Requirements	4
	Installing Laravel	
	Configuration	
	Web Server Configuration	
	Pretty URLs	
Configuration	Environment Variable Types	4
	Retrieving Environment Configuration	
	Determining The Current Environment	
	Hiding Environment Variables From Debug Pages	
	Accessing Configuration Values	
	Configuration Caching	
	Maintenance Mode	
Directory Structure		4
Request Lifecycle		4
Service Container	Binding	4
	Binding Basics	
	Binding Interfaces To Implementations	
	Contextual Binding	
	Tagging	
	Extending Bindings	
	Resolving	
	The Make Method	
	Automatic Injection	
	Container Events	
Service Providers	Writing Service Providers	4
	The Register Method	
	The Boot Method	
	Registering Providers	
	Deferred Providers	
Facades	When To Use Facades	4
	Facades Vs. Dependency Injection	
	Facades Vs. Helper Functions	
	How Facades Work	
	Real-Time Facades	
	Facade Class Reference	
Contracts	When To Use Contracts	4
	Loose Coupling	
	Simplicity	

Topic	Sub Topic	Hours
	How To Use Contracts	
	Contract Reference	
Basic Concepts	Routing	2
- [Middleware	
	CSRF Protection	
	Controllers	
	Requests	
	Responses	
	Views	
	URL Generation	
	Session	
	Validation	
	Error Handling	
	Logging	
Frontend	Blade Templates	2
	Localization	
	Frontend Scaffolding	
	Compiling Assets	
Security	Authentication	2
,	API Authentication	
	Authorization	
	Email Verification	
	Encryption	
	Hashing	
	Password Reset	
Advance Concepts	Artisan Console	4
,	Broadcasting	
	Cache	
	Collections	
	Events	
	File Storage	
	Helpers	
	Mail	
	Notifications	
	Package Development	
	Queues	
	Task Scheduling	
Database	Getting Started	4
	Query Builder	
	Pagination	
	Migrations	
	Seeding	
	Redis	
	Total Hours	46