WEB DEVELOPMENT COURSE MODULE

TOTAL CLASS: 40

Class # 01	Instructor's Signature :	Date :

- ❖ Basic Concept of Website.
- ❖ Web Design & Web Development Tools.
- ❖ Difference Between Dynamic & Static Website.
- ❖ W3C Compatible Coding.
- ❖ Basic Concept-
  - HTTP - Hyper Text Transfer Protocol.
  - HTTPS - Hyper Text Transfer Protocol Secure.
  - SSL- Secure Sockets Layers
  - W3C– World Wide Web Consortium.
  - URL– Uniform Resource Locator.
  - FTP – File Transfer Protocol.
  - CMS – Content Management System.
  - SEO – Search Engine Optimization.
  - WAMP- Windows Apache MySQL PHP.
  - XAMPP- Cross Platform Apache Maria DB PHP and Perl
  - IDE- Integrated Development Environment.
- ❖ SEO Friendly Website Development.
- ❖ Basic Concept of Website Design.
- ❖ What is Responsive Website?
- ❖ What is Bootstrap?
- ❖ Bootstrap Coding Structure.

Class # 02	Instructor's Signature :	Date :

- ❖ Bootstrap Base Layout Development.
- ❖ Bootstrap Grid System.
- ❖ Bootstrap Media Query.
- ❖ Bootstrap Layout Design.
- ❖ Admin Panel Design Concept.
- ❖ Bootstrap Components-
  - Form Design
  - Input Field
  - Table
  - Card
  - Pagination
  - Modal
  - Breadcrumb
  - Button Pattern etc.

Class # 03	Instructor's Signature :	Date :

- ❖ What is JavaScript?

- ❖ How to Use JavaScript.
- ❖ Concept of JavaScript Library.
- ❖ Concept of JavaScript Framework.
- ❖ JavaScript Variable.
- ❖ JavaScript Input and Output.
- ❖ JavaScript Build in Function.
- ❖ What is Function?
- ❖ How to Declare JavaScript Function?
- ❖ JavaScript Data Types.
- ❖ JavaScript Operators.
- ❖ JavaScript Comments.
- ❖ JavaScript Statements.
- ❖ JavaScript Event List.
- ❖ JavaScript Conditional Statements-
- ❖ JavaScript Loops.
- ❖ What is Array?
- ❖ Error Handling.

Class # 04	Instructor's Signature :	Date :

- ❖ What is jQuery?
- ❖ Why Use jQuery.
- ❖ How to Use jQuery.
- ❖ jQuery Selectors.
- ❖ jQuery Events.
- ❖ jQuery Effects.
- ❖ jQuery Channing Methods.

Class # 05	Instructor's Signature :	Date :

- ❖ What is jQuery Plugins?
- ❖ How to Use Plugins in Web Page?
- ❖ jQuery Form Validation Rules.
- ❖ JavaScript Form Validation.
- ❖ jQuery Form Validation.

Class # 06	Instructor's Signature :	Date :

- ❖ What is PHP?
- ❖ Why Use PHP.
- ❖ How to Use PHP.
- ❖ What is Server?
- ❖ How to Install Server?
- ❖ PHP Latest Version Feature.
- ❖ PHP Variable and Types.
- ❖ PHP Coding Structure.
- ❖ PHP Reserved Keyword.
- ❖ PHP Error Handling.
- ❖ PHP Comments.

Class # 07	Instructor's Signature :	Date :

- ❖ How to Use PHP Function?
- ❖ PHP Build in Function.
- ❖ PHP Super Global Variable.
- ❖ PHP Flow Control.
- ❖ PHP Array and Array Types.
- ❖ PHP Regular Expression.

Class # 08	Instructor's Signature :	Date :

- ❖ Dynamic Website Making Policy.
- ❖ Admin Panel Making Policy.
- ❖ Convert HTML File to PHP.
- ❖ Admin Panel Dynamic in PHP.

Class # 09	Instructor's Signature :	Date :

- ❖ What is Database?
- ❖ Why Use Database in Web Application.
- ❖ Why Best MySQL Database.
- ❖ How to Create Database.
- ❖ How to Connection Database in Web Application?
- ❖ What is PHP PDO?
- ❖ How to Use PHP PDO?
- ❖ What is Database Table?
- ❖ How to Create Table.
- ❖ How to Create Table Field?
- ❖ MySQL CRUD System.
- ❖ What is Primary Key?
- ❖ What is Foreign Key?
- ❖ Why Use Foreign Key.
- ❖ How to Secure Database and Table?

Class # 10	Instructor's Signature :	Date :

- ❖ Why Use HTML Form Action Attribute.
- ❖ Why Use Method: POST/GET
- ❖ How to Insert Data in Database?
- ❖ How to Read/View all Data in Database Table.
- ❖ How to View Single Data in Database.
- ❖ How to Update Data in Database?
- ❖ How to Delete Data in Database?
- ❖ How to Search Data in Database?
- ❖ How to Upload Image in Database?
- ❖ How to Change Upload Image Name?

Class # 11	Instructor's Signature :	Date :

- ❖ What is Session?
- ❖ Why Use PHP Session.
- ❖ What is Cookies?

- ❖ Why Use PHP Cookies.
- ❖ How to Use PHP Session?
- ❖ PHP Login System.
- ❖ PHP Authentication System Development.

Class # 12	Instructor's Signature :	Date :

Dynamic Website Development Step by Step

Class # 13	Instructor's Signature :	Date :

Dynamic Website Development Step by Step

Class # 14	Instructor's Signature :	Date :

- ❖ What is OOP?
- ❖ Why Use OOP.
- ❖ Basic Concept of PHP OOP.
- ❖ OOP Access Modifier -
  - Public
  - Private
  - Protected
- ❖ Object Oriented Feature-
  - Properties
  - Methods
  - Class
  - Super Class
  - Sub Class
  - Objects
  - Inheritance
  - Polymorphism
  - Encapsulation
- ❖ OOP Magic Methods.
- ❖ Channing Methods.
- ❖ Project Related Object Oriented Feature.

Class # 15	Instructor's Signature :	Date :

- ❖ PHP Object Oriented Static Class, Property, Method.
- ❖ What is Method Overloading?
- ❖ What is Method Overriding?
- ❖ Object Oriented Feature-
  - Interface
  - Abstraction
  - Constants
  - Constructor
  - Destructor
- ❖ What is Final Keyword?
- ❖ Calling Parent Constructions.
- ❖ Project Related Object Oriented Feature.

Class # 16	Instructor's Signature :	Date :

- ❖ What is Framework?
- ❖ Why Use Framework.
- ❖ Basic Concept of MVC.
- ❖ What is Laravel?
- ❖ Why Use Laravel.
- ❖ Laravel Feature.
- ❖ What is Composer?
- ❖ Why Use Composer.
- ❖ Laravel Insatallation.
- ❖ Laravel Artisan Command.
- ❖ Laravel MVC Structure: Model, View, Controller.

Class # 17	Instructor's Signature :	Date :

- ❖ How Connect Database in Laravel.
- ❖ Laravel Migration System.
- ❖ Laravel Authentication System.
- ❖ How to Create Controller in Laravel.
- ❖ Laravel Blade Template.
- ❖ How to View Blade Template in Laravel.

Class # 18	Instructor's Signature :	Date :

- ❖ Laravel Security System.
- ❖ Laravel Security Token.
- ❖ HTTP Basic Authentication.
- ❖ Encryption System in Laravel.
- ❖ Laravel Routing System.
- ❖ Laravel Architecture Concept.

Class # 19	Instructor's Signature :	Date :

- ❖ How to Create Model in Laravel.
- ❖ How to Create Table in Laravel.
- ❖ Laravel Table Field Naming System.
- ❖ Laravel Migration Artisan.
- ❖ Laravel Eloquent ORM.
- ❖ Eloquent Model Conventions.
- ❖ Create & Update and Deleting Models.
- ❖ Laravel Query Builder.
- ❖ Laravel Events.

Class # 20	Instructor's Signature :	Date :

- ❖ Laravel Database Relationship.
- ❖ Laravel Eloquent Collections.
- ❖ Laravel Database Seeder.
- ❖ Laravel Database Factories.
- ❖ Laravel Database Pagination.
- ❖ Laravel API Resource.

Class # 21	Instructor's Signature :	Date :

- ❖ What is Laravel Package?
- ❖ Why Use Package.
- ❖ How to Install Package.
- ❖ Laravel Official Package List.
- ❖ Important Laravel Package List.
- ❖ What is Laravel Helper?
- ❖ How to Use Helper.
- ❖ Important Laravel Helpers.

Class # 22	Instructor's Signature :	Date :

- ❖ How to Send Email in Laravel.
- ❖ Configuring The Sender.
- ❖ Configuring The View.
- ❖ View Data.
- ❖ Attachments.
- ❖ Inline Attachments.
- ❖ Customizing The Swift Mailer Message.
- ❖ Generating Markdown Mailables.
- ❖ Writing Markdown Messages.
- ❖ Customizing The Components.

Class # 23	Instructor's Signature :	Date :

- ❖ How to Login in Social Media Account.
- ❖ Laravel Socialite Package Installation.
- ❖ Introduction Laravel Socialite Package.
- ❖ Upgrading Socialite Package.
- ❖ Configuration and Routing.
- ❖ Optional Parameters.
- ❖ Access Scopes.
- ❖ Stateless Authentication.
- ❖ Retrieving User Details.

Class # 24	Instructor's Signature :	Date :

- ❖ What is Ajax?
- ❖ What is Json?
- ❖ Why Use Ajax, Json.
- ❖ How to Use Ajax, Json.
- ❖ Ajax Json Use in Laravel Application.

Class # 25	Instructor's Signature :	Date :

- ❖ What is eCommerce?
- ❖ eCommerce Development System Technique.
- ❖ eCommerce Based Laravel Package Installation.
- ❖ eCommerce Based Database Design.
- ❖ eCommerce Algorithm System.

Class # 26	Instructor's Signature :	Date :

- ❖ eCommerce Inventory System Structure.
- ❖ Laravel add to cart System Development Process.
- ❖ Reporting System of eCommerce Inventory.
- ❖ Payment Method Integration.

Class # 27	Instructor's Signature :	Date :

eCommerce Website Development Step by Step

Class # 28	Instructor's Signature :	Date :

eCommerce Website Development Step by Step

Class # 29	Instructor's Signature :	Date :

eCommerce Website Development Step by Step

Class # 30	Instructor's Signature :	Date :

Web Application Database Design Pattern System

Class # 31	Instructor's Signature :	Date :

Web Application Development Step by Step

Class # 32	Instructor's Signature :	Date :

Web Application Development Step by Step

Class # 33	Instructor's Signature :	Date :

- ❖ What is API?
- ❖ What is Rest API?
- ❖ Why Use API in Laravel Project.
- ❖ How Create Laravel API.
- ❖ Laravel Based API Development Process.
- ❖ JSON responses with HTTP status codes
- ❖ Using Middlewares to Restrict Access.
- ❖ security and authentication

Special Class	Domain & Hosting	Date:

- ❖ What is Domain?
- ❖ What is Hosting?
- ❖ Feature of Cpanel.
- ❖ Creating Database in Cpanel.
- ❖ Website Hosting Process.
- ❖ Website Host in Cpanel.

Special Class	Market Place - Fiverr	Date:

- ❖ Discussion in (www.fiverr.com) Market Place.
- ❖ Create Fiverr Account.
- ❖ Build Your Profile.
- ❖ Create Gig/Service.
- ❖ Gig Marketing.
- ❖ Buyer Request.
- ❖ Fiver Order Process.
- ❖ Communication with Buyer.
- ❖ Fiver Account Security.
- ❖ Fiverr Payment Process.
- ❖ Fiverr Tips and Tricks.
- ❖ Question and Answer.

Special Class	Angular JS	Date:

- ❖ What is Angular JS?
- ❖ Angular JS Installation.
- ❖ Angular JS Functions.
- ❖ Angular JS Directive.
- ❖ Object Create in Angular JS.
- ❖ Angular JS DOM?
- ❖ Angular JS Events.
- ❖ Angular JS Controllers.

Special Class	Vue JS	Date:

- ❖ What is Vue JS?
- ❖ The Vue Instance.
- ❖ Template Syntax.
- ❖ Class and Style Bindings.
- ❖ Form Input Bindings.
- ❖ Components Basics
- ❖ Dynamic & Async Components.
- ❖ Server-Side Rendering.
- ❖ Routing

Special Class	Market Place - Upwork	Date:

- ❖ Discussion in (www.upwork.com) Market Place.
- ❖ Introduction to Upwork Account.
- ❖ Create Account Process.
- ❖ Account Approve Guideline.
- ❖ Professional Profile Build-Up.

- ❖ Upwork Test/Exam Guideline
- ❖ Write a Professional Job Cover Letter.
- ❖ Apply Online Project/Job.
- ❖ Communication with Buyer.
- ❖ Account Security.
- ❖ Upwork Payment Process.
- ❖ Upwork Tips and Tricks.
- ❖ Questions and Answer.

Special Class	Market Place - Freelancer	Date:

- ❖ Discussion in (www.freelancer.com) Market Place.
- ❖ Creating Account. Updating Profile
- ❖ Finding Jobs. Details of Job Page.
- ❖ Cover Letter Writing.
- ❖ Good Profile Create System.
- ❖ Bidding Techniques.
- ❖ Contest Attend and Review All Contest.
- ❖ Facing Interview. Communicating with Client
- ❖ Payment Process.
- ❖ Review Questions and Answers.
- ❖ Account Security.

Special Class	Web Application Security	Date:

- ❖ Web Application Security?
- ❖ Importance of Web and Cyber Security.
- ❖ Web Application Security Solution Technique.
- ❖ Web Application Bug Fixing Technique.
- ❖ Web Application Performance Process.