

## Web Programming Course Topics

1. HTML
2. CSS
3. TailwindCSS
4. SASS/SCSS
5. JavaScript
6. jQuery
7. PHP
8. Laravel
9. Database (MySQL)
10. NPM Package
11. Webpack
12. Speed Optimization & SEO Friendly Structure
13. Git Version Control (GitHub)
14. Project Deployment on Shared Hosting (cPanel)
15. Project Deployment on VPS

### Class Details

- 1. Class 01 - Orientation/Introductory.**
  - a. Introduction
  - b. Course Outline
  - c. Future Plan
  - d. Project Ideas
  - e. URL, Domain Name Service, Web Application Overview
  - f. Environment Setup
- 2. Class 02 – Html**
  - a. Tags
  - b. Head & Body
  - c. Comments
  - d. Formatting Text
  - e. Creating Links
  - f. Adding Images
- 3. Class 03 – Html**
  - a. Lists
  - b. Table
  - c. Frames
  - d. Forms
  - e. Media
- 4. Class 04 – Html & CSS**
  - a. Syntax
  - b. Usage (Internal/External/Inline)
  - c. Comment
  - d. Selectors, Declaration (Property & Value)
  - e. Most Needed Properties
- 5. Class 05 – Html & CSS**
  - a. Margin, Padding
  - b. Float, Overflow
  - c. Border, Boarder Radius
  - d. Display
  - e. Flexbox
- 6. Class 06 – Website Structure**
  - a. Basic Structure
  - b. Complex Structure

- c. Themeforest And Standard Maintain

**7. Class 07 – PSD To Html**

- a. PSD To Html Introduction
- b. Photoshop Introduction
- c. How To Find PSD Template
- d. PSD To Html Process
- e. Complete A Design

**8. Class 08 – Advanced CSS & Responsive Design**

- a. Responsive Design Introduction
- b. Responsive Approach to Holistic Design
- c. Usage of Media Query

**9. Class 09 – TailwindCSS**

- a. TailwindCSS Introduction
- b. How to Use Any CSS Framework
- c. Practical Usage and Practice method

**10. Class 10 – TailwindCSS SASS & NPM Package**

- a. Basic Idea About SASS/SCSS
- b. How to use TailwindCSS with SASS Preprocessor
- c. Introduction & Usage of Webpack

**11. Class 11 – JavaScript & jQuery**

- a. Introduction of JavaScript & jQuery
- b. Usage of JavaScript & jQuery
- c. Difference between JS Library and JS Frameworks
- d. JS & jQuery Basics and Methods

**12. Class 12 – jQuery**

- a. jQuery Documentation
- b. jQuery Plugins
- c. Practical Usage
- d. Little Project

**13. Class 13 – Form Validation & Slider**

- a. Form Validation Using JS & jQuery
- b. jQuery Slider
- c. Useful jQuery Plugins

**14. Class 14 – PSD to HTML Live Project 01**

**15. Class 15 – PSD to HTML Live Project 02**

**16. Class 16 – Recap and Problem Solving, Optimization & SEO Factors.**

**17. Class 17 – PHP**

- a. Setup tools for PHP (XAMPP/WAMP/AMPPS/Laragon)
- b. Troubleshoot the Problems of PHP related Tools.
- c. Introduction of PHP & Server
- d. Very Basic of PHP
- e. String
- f. Echo/Print
- g. Variable
- h. Constant

**18. Class 18 – PHP**

- a. Operators
- b. PHP Condition
- c. Loop
- d. Array
- e. Function
- f. Basic About Session

**19. Class 19 – PHP & OOP**

- a. Callback Functions
- b. Exceptions
- c. Introduction About OOP
- d. Class/Object
- e. Constructor
- f. Usage of Require & Include
- g. Usage of Inheritance

**20. Class 20 – OOP**

- a. Destructor
- b. Access Modifiers
- c. Inheritance
- d. Traits
- e. Methods
- f. Namespace

**21. Class 21 – MySQL (Database)**

- a. Create Database
- b. Create Table
- c. Drop Database
- d. Null/Not Null/Constraints/Unique
- e. Keys, Default
- f. Data Types
- g. Basic Idea About Relational Database

**22. Class 22 – Laravel Basic**

- a. Installation & Configuration & MVC concepts
- b. Routing
- c. Middleware
- d. Controller
- e. CSRF Protection
- f. Request
- g. View
- h. Model
- i. Session
- j. Validation

**23. Class 23 – Laravel Frontend**

- a. Blade Template
- b. Blade Directing
- c. Scaffolding
- d. Webpack & Laravel Mix

**24. Class 24 – Laravel Security**

- a. Authentication
- b. API Authentication
- c. Authorization
- d. Encryption
- e. Hashing

**25. Class 25 – Laravel Advance**

- a. Artisan Console
- b. Broadcasting
- c. Caching
- d. File Storage
- e. Mail
- f. Task Scheduling
- g. Provider

**26. Class 26 – Database**

- a. Migration
- b. Factory
- c. Seeder
- d. Tinker
- e. Seeding
- f. Pagination

**27. Class 27 - Eloquent ORM**

- a. Relationship
- b. Collection
- c. Mutators
- d. API Resource
- e. Serialization

**28. Class 28 – Laravel Project (Blog Site- Part 01)**

**29. Class 29 – Laravel Project (Blog Site – Part 02)**

**30. Class 30 – Laravel Project (Blog Site – Part 03)**

**31. Class 31 – Laravel Problem Solving and GitHub Usage**

**32. Class 32 – Laravel Project 02 (Student Database – Part 01)**

**33. Class 33 – Laravel Project 02 (Student Database – Part 02)**

**34. Class 34 – Laravel Project 02 (Student Database – Part 03)**

**35. Class 35 – Laravel Project 03 (Dynamic Website – Part 01)**

**36. Class 36 – Laravel Project 03 (Dynamic Website – Part 02)**

**37. Class 37 – Laravel Project 03 (Dynamic Website – Part 03)**

**38. Class 38 – Recap & Problem Solving**

**39. Class 39 – Project Deployment on Shared and VPS Server**

**40. Class 40 – Themeforest, Fiverr & Upwork Guideline**

**41. Class 41 – Themeforest, Fiverr & Upwork Guideline**