WEB DESIGN AND DEVELOPMENT
COURSE OUTLINE
Total Classes: 48

Class # 01	Instructor's Signature :	Date :

- ❖ Basic Concept of Website
- ❖ Differences between Static & Dynamic Website.
- ❖ What is HTML?
- ❖ What is HTML 5?
- ❖ Basic Concept on:
  - HTTP - Hyper Text Transfer Protocol.
  - HTTPS - Hyper Text Transfer Protocol Secure.
  - W3C - World Wide Web Consortium.
  - URL - Uniform Resource Locator.
  - FTP – File Transfer Protocol.
  - CMS – Content Management System.
  - SEO – Search Engine Optimization.
- ❖ Website Design Tools.
- ❖ Important Web Browser.
- ❖ HTML Extension.
- ❖ HTML Syntax.

  Class Assignment: HTML File Create and HTML Syntax Create.

Class # 02	Instructor's Signature :	Date :

- ❖ HTML & HTML Syntax.
- ❖ W3C Compatible Coding.
- ❖ HTML Heading Tag.
- ❖ Single and Double Tag.
- ❖ HTML Comments.
- ❖ HTML Attribute.
- ❖ HTML 5 Tags.
- ❖ What is HTML 5?

  Class Assignment: All Tag Use in Webpage.
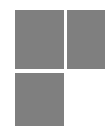
Class # 03	Instructor's Signature :	Date :

- ❖ What is Table.
- ❖ Table Attribute.
- ❖ Table Layout Design.
- ❖ What is Nested Table.
- ❖ Why use to Nested Table.
- ❖ Nested Table Layout.
  Class Assignment: Table Design & Nested Table Design.

Class # 04	Instructor's Signature :	Date :

- ❖ List Item.
- ❖ Form Design.
- ❖ Input Types.
- ❖ Form Elements.
- ❖ Iframe Design.
- ❖ Marquee Tag.
  Class Assignment: Use to all List Item, Form Design All Elements, Iframe Design.

Class # 05	Instructor's Signature :	Date :

HTML Review all class.

Project-01 : Table Based Website Layout.

Exam About HTML (Class Test – 01)

Class # 06	Instructor's Signature :	Date :

- ❖ Div Introduction.
- ❖ What is CSS, Syntax of CSS.
- ❖ CSS3 All Selectors.
- ❖ Types of CSS.
  - • Inline CSS Use website.
  - • Internal CSS Use website.
  - • External CSS Use website.
  - • Comment of CSS.
  - • Difference Between ID & Class.
  - • Important Property of CSS.
  - • Div Based Layout Design.
    Class Assignment: CSS Coding System, Web Page Layout Design.

Class # 07	Instructor's Signature :	Date :

- ❖ Margin and Padding Property Discussion.
- ❖ Position Set In Webpage -
  - • Relative
  - • Absolute
  - • Fixed etc.
- ❖ Background Image Set Position in Webpage.
- ❖ CSS3 Animation Effect.
- ❖ CSS3 Browser Prefix.
  Class Assignment: Position set, Background Image Position and CSS3 Animation.

Class # 08	Instructor's Signature :	Date :

- ❖ Wide (Full-Width) Layout Design.
- ❖ Menu/Navigation Design.
- ❖ Dropdown Menu Create.
  Class Assignment: Position set; Background Image Position.

  Project – 02 : DIV Based Layout Design with Good Coding Structure.

Class # 09	Instructor's Signature :	Date :

- ❖ What is Photoshop?
- ❖ Basic Concept of Photoshop?
- ❖ Introduction Photoshop Tools-
- ❖ PSD Convert System.
- ❖ Photoshop Image Slice.
- ❖ Pick PSD Color and Fonts.
- ❖ Menu/Navigation Design.
- ❖ Dropdown Menu Create.
    Class Assignment: PSD Web Page Requirement Base Slice.

Class # 10	Instructor's Signature :	Date :

PSD to HTML Landing Page Design

Class Assignment: Landing Page Design with Standard Coding Structure.

Class # 11	Instructor's Signature :	Date :

PSD to HTML Landing Page Design

Class Assignment: Landing Page Design with Standard Coding Structure.

Project -03: PSD to HTML with Standard Coding Structure.

Class # 12	Instructor's Signature :	Date :

- ❖ What is JavaScript?
- ❖ Why Use to JavaScript?
- ❖ JavaScript Basic Syntax.
- ❖ JS different types of output.
- ❖ JS statements, JS Comments.
- ❖ JS Data types.
- ❖ JS Variables, JS Objects.
- ❖ JS Functions.
- ❖ JS Arrays.
- ❖ Variable use program.
  Class Assignment: JavaScript Code Structure and Variable Use Program.

Class # 13	Instructor's Signature :	Date :

- ❖ Operators.
- ❖ JS Conditions
- ❖ JS Switch
- ❖ JS For-Loop
- ❖ JS While-Loop
- ❖ JS Do-While Loop
  Class Assignment: Create Function and Looping Use Program & Condition.

Class # 14	Instructor's Signature :	Date :

- ❖ What is Jquery?
- ❖ Why Use to Jquery?
- ❖ How to Use Jquery
- ❖ Some effect -
  - • Hide-Show
  - • Up-Down
  - • Toggle
  - • Slide
  - • Animation etc.
    Jquery Animation Plugging Development.

Class # 15	Instructor's Signature :	Date :

- ❖ How to Use Plugging in Website?
- ❖ Jquery Slider in Website.
- ❖ Jquery Lightbox in Website.
- ❖ How to Use Jquery
  Class Assignment: Slider Add in Website.

Class # 16	Instructor's Signature :	Date :

- ❖ What is Responsive Website?
- ❖ Responsive CSS Frame Work—
  - • Bootstrap
- ❖ What is Bootstrap?
- ❖ Bootstrap CSS Code Review.
- ❖ How to Use Bootstrap?
- ❖ Bootstrap Class Review.

Class # 17	Instructor's Signature :	Date :

PSD to HTML Responsive Landing Web Page Design

Class Assignment: Responsive Landing Page Design

Class # 18	Instructor's Signature :	Date :

PSD to HTML Responsive Landing Web Page Design

Class Assignment: Responsive Landing Page Design

Class # 19	Instructor's Signature :	Date :

PSD to HTML Responsive Landing Web Page Design

Class Assignment: Responsive Landing Page Design

Class # 20	Instructor's Signature :	Date :

PSD to HTML Responsive Landing Web Page Design

Class Assignment: Responsive Landing Page Design

Class # 21	Instructor's Signature :	Date :

- ❖ What is Parallax?
- ❖ CSS3 Animation Effect?
- ❖ CSS3 Latest Animation Effect
- ❖ Scroll Based CSS3 Animation Website
- ❖ Animation Based CSS3 Property.
  Class Assignment: Parallax Base Animated Website.

Class # 22	Instructor's Signature :	Date :

- ❖ Basic Discussion on Web Platform.
- ❖ Differences between Static & Dynamic Website.
- ❖ What is Client Side & Server Side?
- ❖ Tools we will need for Web Development.
- ❖ Basic Concept on:
    - • HTTP - Hyper Text Transfer Protocol.
    - • URL - Uniform Resource Locator.
    - • Code editor
    - • WAMP - Windows Apache MySQL PHP.
    - • XAMPP - Cross Platform Apache MariaDB PHP and Perl
  - ❖ How to Install Server in Local Environment?
- ❖ What is Programming Language?
- ❖ History of PHP
- ❖ PHP in Web Development
- ❖ PHP Coding Structure
- ❖ Writing "Hello World" program using PHP

Class # 23	Instructor's Signature:	Date:

- ❖ Working with PHP Variables.
- ❖ Variable Declaration in PHP.
- ❖ Case Sensitive in PHP ❖ Valid & Invalid Variable.
- ❖ Assigning Value in a Variable
- ❖ Assignment Operator
- ❖ How to do PHP Comment.
- ❖ Types of PHP Comment.
- ❖ Concatenation in PHP.
- ❖ Use of Concat operator.
- ❖ Indentation in code writing

Class # 24	Instructor's Signature:	Date:

- ❖ Arithematic operation in PHP
- ❖ Use of Modulus Operator.
- ❖ What is Function?
- ❖ What is Constant Variable?
- ❖ Working with Constant in PHP.

Class # 25	Instructor's Signature :	Date :

- ❖ String Functions:
  - strlen
  - str_word_count
  - strrev
  - str_replace
  - explode
- ❖ Conditions in PHP:
  - If
  - Else if
  - Else

Class # 26	Instructor's Signature :	Date :

- ❖ Nested If Else Condition
- ❖ Shorthand If Else Condition (Use of Ternary Operator)
- ❖ PHP Switch Statement

Class # 27	Instructor's Signature :	Date :

- ❖ Loops in PHP:
  - while
  - do while
  - for
  - foreach

Class # 28	Instructor's Signature :	Date :

- ❖ Arrays:
  - • Indexed Arrays.
  - • Associative Arrays.
  - • Multidimensional Arrays.
- ❖ Sort Functions for Arrays.
- ❖ Looping through Arrays.

Class # 29	Instructor's Signature :	Date :

- ❖ Super Global Variable ❖
- PHP Form Submission:
  - • Form Handling
  - • Form Validation (filter, preg_match)

Class # 30	Instructor's Signature :	Date :

- ❖ PHP Date & Time
- ❖ File Include/Require in PHP.
- ❖ File Create in PHP
- ❖ File Read in PHP
- ❖ die function
- ❖ try catch exception

Class # 31	Instructor's Signature :	Date :

- ❖ What is SQL?
- ❖ How to Create Database in MySQL?
- ❖ How to Connect Database in Web Application?
- ❖ What is Database Table?
- ❖ How to Create Table?
- ❖ How to Create Table Field?
- ❖ What is Primary Key?
- ❖ Why We Use Primary Key?
- ❖ What is Foreign Key?
- ❖ Why We Use Foreign Key?

Class # 32	Instructor's Signature :	Date :

- ❖ Introduction to CRUD in PHP
- ❖ Introduction to MySQL and MySQLi
- ❖ Working with System Registration (Sign Up) Form ❖ Data
Passing Using GET/POST Method.

Class # 33	Instructor's Signature :	Date :

- ❖ How to Read/View all Data from Database?
- ❖ How to View Single Data from Database?
- ❖ How to Update Data in Database?
- ❖ How to Delete Data from Database?

Class # 34	Instructor's Signature :	Date :

- ❖ Working with System Login (Sign In) Form
- ❖ What is Session?
- ❖ Why We Use PHP Session?
- ❖ How to Use PHP Session?
- ❖ Enabling logout in System.

Class # 35	Instructor's Signature :	Date :

- ❖ What is Object Oriented Programming (OOP)?
- ❖ Basic Concept of PHP OOP.
- ❖ What is Magic Method? ❖ Basic Concept- ▢ Class
  - • Methods
  - • Objects
  - • Constructors
  - • Destructors

Class # 36	Instructor's Signature :	Date :

- ❖ OOP Access Modifier -
  - • Public
  - • Private
  - • Protected
- ❖ What is Method Overloading and Overriding? ❖ Object Oriented Feature-
  - • Inheritance
  - • Abstraction
  - • Polymorphism
  - • Encapsulation

Class # 37	Instructor's Signature:	Date:

- ❖ Basic Concept of Application/Software
- ❖ Different types of Applications.
- ❖ What is Web App?
- ❖ What is a Framework?
- ❖ Introduction to Laravel
- ❖ Why Laravel for web app development?
- ❖ What is MVC Architecture?
- ❖ Local Development Environment and Software Installation.

Class # 38	Instructor's Signature:	Date:

- ❖ What is CLI (Command-line Interface)? ❖ Basic CLI commands ❖ What is Composer?
- ❖ Laravel installation using Composer
- ❖ Folder structure
- ❖ .env file
- ❖ composer.json file
- ❖ Beautiful Artisan commands
- ❖ Running the first Laravel project using Artisan command ❖ Understanding MVC Architecture in Laravel ❖ What is Route?
- ❖ Creating our first route

Class # 39	Instructor's Signature:	Date:

- ❖ Creating Views
- ❖ Blade Templating
- ❖ Extending Blade
- ❖ What is Controller?
- ❖ How to create a Controller?
- ❖ Passing Data To Views

Class # 40	Instructor's Signature :	Date :

- ❖ Making form at Laravel
- ❖ Sending form data to a Controller
- ❖ Doing logical and mathematical operation using form data ❖

Connecting MySQL database to Laravel

Class # 41	Instructor's Signature :	Date :

- ❖ Understanding the Model
- ❖ Using Migration to create table
- ❖ Working with Model and Migration
- ❖ Inserting record into database using Eloquent Model

Class # 42	Instructor's Signature :	Date :

- ❖ Read record from database (single/multiple)
- ❖ Update record from database

Class # 43	Instructor's Signature :	Date :

- ❖ Delete record from database
- ❖ Using Laravel Basic Authentication
- ❖ What is Middleware?

Class # 44	Instructor's Signature :	Date :

Web Development Step by Step

Class # 45	Instructor's Signature :	Date :

Web Development Step by Step

Class # 46	Instructor's Signature :	Date :

Web Development Step by Step

- ❖ Image/File upload using Laravel File Storage
- ❖ Understanding symbolic link

Class # 47	Instructor's Signature :	Date :

Web Development Step by Step

- ❖ Planning of web application
- ❖ Development work on basic functionalities
- ❖ Use of Resource Controller

Class # 48	Instructor's Signature :	Date :

Web Development Step by Step

- ❖ Use of dataTables
- ❖ Applying on Request Class
- ❖ Working on Request class

Class # 49	Instructor's Signature :	Date :

Web Development Step by Step

- ❖ One to One Relation
- ❖ One to many relation
- ❖ Eager Loading
- ❖ Integrating custom dashboard with default design

Class # 50	Instructor's Signature :	Date :

Web Development Step by Step

- ❖ Use of Package

Class # 51	Instructor's Signature :	Date :

Web Development Step by Step

- ❖ Laravel Socialite

Special Class # 52	Instructor's Signature :	Date:

- ❖ What is Domain?
- ❖ What is Hosting?
- ❖ Feature of Cpanel.
- ❖ Creating Database in Cpanel.
- ❖ Hosting a Web Application in Live Server

Special Class # 53	Instructor's Signature :	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 Withdrawn.
- ❖ Review Questions and Answers. ❖ Account Security.

Class Assignment: Every Student Create Account in Market Place and Bidding Client Project.