

Course outline:

Class 01:

Introduction to web design

Static Dynamic Website

How Web Work?

What Is Wireframing?

Wireframing Tools.

Course Module Overview

Project: Think about a website. Make a skeleton by using wireframing tools.

Class 02:

Website Designing Tools

IDE vs Code Editor

HTML and Browsers

File Extension

Creating A HTML File

Arranging files and making a startup package

Project: Creating startup package and upload it to google drive.

Class 03:

HTML Syntax

Basic Structure (Head and Body Section)

HTML Tags

HTML Elements

HTML Attributes

HTML Typography

HTML Block vs Inline Element

Commenting in HTML

Project: Creating a web page with proper HTML Syntax.

Class 04:

HTML Lists

HTML Table

Table Caption

Attributes of Table

Table Row and Column

Project: Creating a table.

Class 05:

Introduction to HTML Form

Form Elements

Input Types and Attributes

Form Validations

GET vs POST Method

Form Arrangement (Field set)

Project: Creating a register form that requires every form element.

Class 06:

HTML Media Elements

Different Types of Images

Audio and Video Controlling

Iframe in HTML

Embedded Video from YouTube

Project: Creating a webpage where image, audio, video and gif animation will be embedded.

Class 07:

HTML5 Semantic Elements

Brief Discussion on HTML5 API

HTML Review

Project: Create a Semantic Layout

Class 08:

Introduction to CSS (Cascading Style Sheet)

CSS Ruleset

How to Link CSS

Inline

Internal

External

CSS Specificity

Project: Creating and linking a css file and implement important properties.

Class 09:

Introduction to CSS Selectors

HTML DOM Tree

Universal Selector

Type Selector

Attribute Selectors

Class 10:

Pseudo Classes

Pseudo Elements

Child and Adjacent Selectors

ID vs Class Selectors

Others

Project: Creating an external css file and change HTML view styling with selectors.

Class 11:

CSS Box Model

Margin

Padding

Border

Content

Different Box Model Properties

Styling List

Project: Create a basic web layout

Class 12:

Introduction to CSS Layout

Floats

Positioning

Practical Positioning Example

Flex

Project: Creating a website with actual positioning.

Class 13:

Creating Menu in CSS

Styling Text

Working With Web Fonts and Icons

Styling fonts and icons

Input box Styling

Project: Creating a menu with icons. Styling text and fonts.

Class 14:

Introduction to lovable CSS (Some CSS3 Properties)

Border and Rounded Corners

Working With Background

Gradient and Shadow

Transition and Transformation

CSS Animation

Project: Creating a website with image/color backgrounds and transition, transformation effects.

Class 15:

A Complete Web Page Using HTML5 and CSS3

Introduction to Sass

Installing Sass and Sass Compiler

Folder Structure

Variable

Mixins

Project: Implementing css property with Sass.

Class 16:

Types

Nesting and Scope

Operator

Function

Extend

Project: Implementing css property with Sass.

Class 17:

Introduction to Bootstrap Framework. (BS)

How to Install BS

BS Grid System

Understanding Device Screen Size

BS Typography

Project: Installing bootstrap and create a grid for web layout.

Class 18:

BS Table

BS Form

Project: create a form for web site.

Class 19:

BS Navigation

BS Button

BS Pagination

BS Image Responsive

Bs Card

Project: create a Card for web site.

Class 20:

BS Carousel

BS Accordion

BS Modal

BS Tab and Tooltip

Project: Complete a webpage with Bootstrap.

Class 21:

Overview of Responsive Web Design (RWD)

Working With Viewport

Project: Enable a website for mobile responsive view.

Class 22:

What is Photoshop?

Basic Concept of Photoshop.

How to Use Photoshop tools?

PSD Fonts, Color and Layer Concept.

Image Trimming in Photoshop.

Project: Converting PSD to HTML.

Class 23:

Converting Multipurpose Business PSD Template to HTML

Introduction to JavaScript. (JS)

What you can do with JavaScript?

Js Basic Syntax

Variable in JS

Operator, Data Type in JS

Commenting in JS

Project: Playing with Javascript syntax.

Class 24:

Function in JS

Array in JS

Concept of Objects

JS Conditions (if, else)

Loop in JS

Project: Practicing JS with programming concept.

Class 25:

DOM and BOM in JS

Method, Documents, Elements in DOM

DOM Event and Eventlistener

JS Window

History and Navigation in JS

Project: Working with advance JS.

Class 26:

Date Format in JS

Form Validation Techniques.

Project: Completing form validation in JavaScript.

Class 27:

jQuery Introduction

jQuery Selectors

jQuery and DOM

jQuery and Event

Project: Working with jQuery.

Class 28:

Introduction to jQuery Effects

Hide, Show, Fade, Toggle

Animation in jQuery

Using Plugin in jQuery

Project: using a slider in JQuery.

Class 29:

What is Domain and Hosting?

Introduction to cPanel

How to Host a Website in a Server?

Working in Live Server.

Project: Host the website in live server.

Class 30:

What is Server Side Scripting?

Introduction to PHP.

How to Use XAMPP?

PHP Syntax.

Defining Variables and echo .

Using include and require function

Project: Installing XAMPP in localhost. Working with PHP syntax.

Class 31:

Basic PHP & MYSQL – Operators

Operator Precedence

Arithmetic Operators
Assignment Operators
Comparison Operators
Incrementing/Decrementing Operators
Logical Operators
String Operators

Class 32:

Basic PHP & MYSQL – Control Structures

If
Else
Elseif
Switch
For
While
Do while
Foreach
Break
Continue
Basic PHP & MYSQL – Array
Initializing Arrays
Initializing Associative Arrays
Reading from Associative Arrays
Looping through Associative Arrays- Superglobal Arrays
Two-dimensional Arrays
Reading from Two-dimensional Arrays
Looping through Two-dimensional Arrays
Array Manipulation Functions

Basic PHP & MYSQL – Function
User Functions
Defining and Calling Functions
Variable Scope - By Reference vs. By Value

Form Processing
Basic PHP & MYSQL – Object Oriented PHP
Introduction to Object Oriented PHP
Why learn Object Oriented PHP
Why learn Object Oriented PHP

Class 33:

Basic PHP & MYSQL – Defining And Using Classes
Defining Classes
Defining Properties

Defining Methods
Creating And Using Objects
Using Static Properties And Methods
Calling Functions from Another Class
Basic PHP & MYSQL – Inheritance And Interfaces
Extending A Class
Controlling Access To Properties
Abstract Classes
Overriding Methods
Defining And Implementing An Interface
Polymorphism
Private, protected and public members
Constructor and destructor methods
Basic PHP & MYSQL – MySQL essentials
Creating and Selecting a Database
Creating a Table
Loading Data into a Table

Retrieving Information from a Table

The Maximum Value for a Column

The Row Holding the Maximum of a Certain Column
Maximum of Column per Group
The Rows Holding the Group-wise Maximum of a Certain Column
Using User-Defined Variables
Using Foreign Keys
Searching on Two Keys

Calculating Visits Per Day
Using AUTO_INCREMENT

Inner join · Left Join

Right Join
Basic PHP & MYSQL – Combining HTML, PHP & MYSQL (CRUD)

Insert
View
Edit
Update
Delete
File
Picture

Include/Include Once · Require/Require Once

Class 34:

What is CMS?

Introduction to Wordpress.

Creating Database For WP.

Installing WP

Overview of WP Elements

Project: Creating Database and Installing WP. Working With Theme in WP.

Class 35:

Understanding the WP Dashboard

Pages, Tags, Menu, Media and Content

Core WP Settings

Finding and Installing WP Theme and Plugins

Project: Create a Menu in WP. Add a New Menu In WP, Installing New Theme

Class 36:

Introduction to Marketplace (Fiverr)

How to Create a fiverr Account?

Gigs Setting Techniques.

Presentation. Certification and Closing Ceremony.

Project: Opening a fiverr Account

Minimum 2 Real life project