

Course Name: **Web Design and Development**  
 Course Duration: **60 hours/2hours per class**

Session	Title
Day 01	Introduction to Web Design
	Static Vs Dynamic Website.
	What is wireframing ? Handsketch & Wireframing. Wireframing tools.
	Story Board (How to think )
	Course module overview.
	Project: Think about a website. Make a skeleton by using wire framing tools.
Day 02	Website Designing tools, IDE vs Code editor.
	Environment Setup, HTML & Browsers.
	File extension, Creating a file.
	Arranging files and making a startup package.
	Project: Creating startup package and upload it to google drive.
Day 03	HTML Syntax, Head & Body Section.
	Basic tags, HTML Elements & Attributes.
	Commenting in HTML, List items in HTML.
	Project: Creating a web page with proper HTML Syntax.
Day 04	What is table? , Table Head and Body Contents.
	Attributes of table, Table row and column.
	Nested table, Layout with table.
	Project: Creating a webpage layout with table.
Day 05	Introduction to form. Form elements, Input types and attributes.
	Form controls, GET vs POST method.
	Form arrangement and decoration.
	Project: Creating a register form that requires every form elements.
Day 06	Different types of image in HTML, Iframe in HTML.
	Audio and Video controlling, Embedded video from youtube.
	Gif amination embedded, HTML Review.

	Project: Creating a webpage where image, audio, video and gif animation will be embedded.
Day 07	Introduction to CSS (Cascading style sheet), Syntax of CSS.
	How to link CSS. Important property of CSS, Inline, Internal, External
	Layout concept in CSS.
	Project: Creating Link a css file and implement important property.
Day 08	Introduction to Selectors, Id Vs Class, Attribute selectors.
	Child and Adjacent Selectors, Selectors Grouping.
	Project: Creating an external css file and change HTML view styling with selectors.
Day 09	List styling, 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.
Day 10	Introduction to CSS layout.
	Floats, Positioning.
	Practical positional example.
	Flexbox, Grids.
	Project: Creating a website with actual positioning.
Day 11	Introduction to lovable css, Border and rounded corners.
	Working with background, Gradient & shadow, Transition & transformation.
	Project: Creating a website with image/color backgrounds and transition, transformation effects.
Day 12	Overview of Responsive Web Design (RWD), Working with viewport.
	Practicing Media Queries, RWD Frameworks.
	Project: Enable a website for mobile responsive view.
Day 13	Introduction to LASS/SASS, Variable, Mixins, Nesting & Scope.
	Operation, Function, Extend.
	Project: Implementing css property with LASS/SASS.
	Registering Middleware & Using project.

Day 14	Introduction to Bootstrap Framework. (BS), How to install bootstrap.
	Great grid system, Understanding device screen size.
	BS table, BS form, BS button, BS Image responsive.
	Project: Installing bootstrap and create a grid for web layout.
Day 15	BS Modal, BS Scrollspy, BS Tab & tooltip, BS Carousel, BS Accordion.
	Project: Complete a webpage with Bootstrap
Day 16	What is Photoshop? Basic concept of Photoshop, How to use Photoshop tools?
	PSD fonts,color and layer concept, Image slicing in Photoshop, PSD fonts
	PSD to HTML converting techniques.
	Project: Converting to HTML.
Day 17	Project Review and Mid Term Exam.
Day 18	Converting Portfolio PSD template to HTML.
Day 19	Converting Multipurpose Business PSD template to HTML.
Day 20	Introduction to Javascript (JS).
	What can't you do with JavaScript? JS basic syntax, Variable in JS.
	Operator, Data type and Functions in JS, Commenting in JS.
	Project: Playing with Javascript syntax.
Day 21	Array in JS, Concept of Objects, JS Conditions ( if,else ), Switch in JS.
	Loop: for loop, while loop, do while loop.
	Project: Practicing JS with programming concept.
Day 22	DOM & BOM in JS, Method, documents, elements in DOM.
	DOM Event & Eventlistener, JS Window, History, Navigation in JS.
	Project: Working with advance JS.
Day 23	Date format in JS, Form validation techniques.
	Project: Completing form validation in Javascript.
Day 24	What is outsourcing?, How to open an account in freelancer.com?
	Cover letter writing, Finding jobs & facing interview.
	Proper communication with clients, Payment method,

	Question and answer session.
	Project: Creating an account in marketplace.
Day 25	JQuery Introduction, JQuery Selectors, JQuery and DOM, JQuery and Event.
	Project: Working with JQuery.
Day 26	Introduction to JQuery effects, Hide, Show, Fade, Slide in JQuery.
	Animation in JQuery, Slider in JQuery, Using Plugins in JQuery.
	Project: Implementing a slider in JQuery.
Day 27	What is domain and hosting?, What is Server?
	Introduction to cpanel, Overview of webmail.
	How to host a website in server? Creating a database in server.
	Working in live server.
	Project: Host the website in live server. Creating and accessing webmail.
Day 28	What is server side scripting?, Introduction to PHP.
	How to use WAMP/XAMP, PHP syntax, Defining variable and constant.
	Functions in PHP,
	Project: Installing WAMP/XAMP in localhost. Working with PHP syntax.
Day 29	Introduction to RDBMS, Connection with MySql Database.
	Create a database in localhost, Making a login system in PHP.
	Project: Creating a database and making a login system.
Day 30	Converting static site to Dynamic with PHP, Use include function.
	Change all the contents from backend, Overview of WP.
	Project: Converting a static site to Dynamic.
	Final Exam.