

KAUR'S CODING ACADEMY

Web Designing - HTML and CSS

Module-wise Teacher Syllabus

A complete web designing course covering HTML structure, forms, CSS styling, layouts, responsive design, animations and a final website project.

Course	Audience	Suggested Duration	Final Output
Web Designing - HTML and CSS	Grades 6+, beginners, college students and professionals	30 classes / 6 to 8 weeks	Responsive website or business landing page

Teacher Note

Every class should show visible output in the browser. Students should create one running website folder from the first week.

Learning Outcomes

- Create structured HTML pages using headings, paragraphs, links, images, lists, tables and forms.
- Style pages using CSS selectors, colors, typography, spacing and the box model.
- Build modern responsive layouts using Flexbox, Grid and media queries.
- Add transitions, hover effects and basic animations.
- Complete and present a responsive website from scratch.

Document Use

This PDF is made for teachers to plan classes module by module. Each module includes topic names, teaching points, class practice and revision work.

Complete Module Index

The table below gives a quick view of what will be taught in this course.

Module	Topic Name	Main Things Teacher Will Cover
1	Introduction to Web and HTML	What is a website?, Role of HTML in web development, Creating and saving an HTML file, Browser preview, and more
2	HTML Document Structure	Doctype declaration, html, head and body tags, Meta tags, Title tag, and more
3	Text Formatting and Content Tags	Headings h1 to h6, Paragraphs and line breaks, Bold, italic and underline, Span and div basics, and more
4	Links and Images	Anchor tag, Internal and external links, Opening link in new tab, Image tag, and more
5	Lists and Tables	Unordered lists, Ordered lists, Nested lists, Table, tr, td and th, and more
6	HTML Forms and Input Types	Form tag, Text, email, password and number inputs, Textarea, Radio buttons and checkboxes, and more
7	Semantic HTML and Accessibility Basics	Header, nav, main, section, article and footer, Accessible labels, Alt text, SEO-friendly structure, and more
8	Introduction to CSS	What CSS does, Inline CSS, Internal CSS, External CSS, and more
9	CSS Selectors and Properties	Element selectors, Class selectors, ID selectors, Grouping selectors, and more
10	Box Model and Spacing	Content, padding, border and margin, Width and height, Border radius, Box sizing, and more
11	Display and Positioning	Block, inline and inline-block, Display none, Static, relative, absolute and fixed positioning, Z-index basics
12	Flexbox Layout	Flex container and flex items, Direction, wrap and gap, Justify-content and align-items, Navigation layout, and more
13	CSS Grid Layout	Grid container, Rows and columns, fr unit, Gap, and more
14	Transitions, Hover Effects and Animations	Transition property, Hover states, Transform scale/translate basics, Keyframes, and more
15	Responsive Web Design	Mobile-first approach, Media queries, Breakpoints, Responsive images, and more
16	Bootstrap or Tailwind CSS Introduction	Why frameworks are used, Bootstrap grid and components overview, Tailwind utility classes overview, When to use custom CSS vs framework
17	Website Project Build	Project idea, Wireframe, Section planning, Navigation, hero, services, gallery/contact, and more
18	Project Presentation and Review	Final testing, Code cleanup, Browser compatibility check, Project presentation, and more

Detailed Module-wise Teaching Plan

Teachers should first explain the concept in simple language, then demonstrate code, then allow students to practice and customize the output.

Module 1: Introduction to Web and HTML

Topics to be Covered	What Teacher Will Explain / Demonstrate
- What is a website? - Role of HTML in web development - Creating and saving an HTML file - Browser preview - Basic web project folder structure	- Explain frontend and browser rendering - Demonstrate creating index.html - Show live preview in browser
Class Practice / Student Output	Homework / Revision
- Create first HTML file - Add page title and basic text - Save and open in browser	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 2: HTML Document Structure

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Doctype declaration - html, head and body tags - Meta tags - Title tag - HTML elements and attributes - HTML comments	- Explain document anatomy - Demonstrate proper indentation - Show how comments help in code reading
Class Practice / Student Output	Homework / Revision
- Create a clean HTML skeleton - Add title and meta information - Add comments for sections	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 3: Text Formatting and Content Tags

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Headings h1 to h6 - Paragraphs and line breaks - Bold, italic and underline - Span and div basics - Horizontal line and special content	- Show how content hierarchy works - Explain inline vs block elements with examples - Demonstrate formatting tags properly
Class Practice / Student Output	Homework / Revision
- Create an article page - Add headings and formatted text - Use span/div for small sections	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 4: Links and Images

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Anchor tag - Internal and external links - Opening link in new tab - Image tag - src, alt, width and height attributes - Relative and absolute paths	- Explain navigation between pages - Show image path mistakes and fixes - Demonstrate alt text importance
Class Practice / Student Output	Homework / Revision
- Add navigation links - Insert images with alt text - Create a gallery section	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 5: Lists and Tables

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Unordered lists - Ordered lists - Nested lists - Table, tr, td and th - Table headers and captions - Simple table styling	- Explain where lists and tables are used - Demonstrate nested list for menu - Build a timetable table step by step
Class Practice / Student Output	Homework / Revision
- Create a nested list - Build a timetable or pricing table - Add CSS border to table	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 6: HTML Forms and Input Types

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Form tag - Text, email, password and number inputs - Textarea - Radio buttons and checkboxes - Select dropdown - Buttons and labels - Required validation	- Explain data collection through forms - Demonstrate labels and placeholders - Show required fields and input type validation
Class Practice / Student Output	Homework / Revision
- Create a contact form - Add different input types - Test required validation in browser	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 7: Semantic HTML and Accessibility Basics

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Header, nav, main, section, article and footer - Accessible labels - Alt text - SEO-friendly structure - Clean page sections	- Explain why semantic tags help browsers and users - Show a proper landing page structure - Demonstrate accessible form labels
Class Practice / Student Output	Homework / Revision
- Convert div-only page into semantic layout - Add nav and footer - Improve image alt text	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 8: Introduction to CSS

Topics to be Covered	What Teacher Will Explain / Demonstrate
- What CSS does - Inline CSS - Internal CSS - External CSS - Linking CSS file - CSS syntax	- Explain separation of structure and design - Demonstrate three ways to add CSS - Show why external CSS is preferred
Class Practice / Student Output	Homework / Revision
- Create style.css - Link CSS file to HTML - Style headings and paragraphs	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 9: CSS Selectors and Properties

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Element selectors - Class selectors - ID selectors - Grouping selectors - Color and background - Font family and font size	- Explain selector targeting - Show class vs id with practical examples - Demonstrate changing design of repeated cards
Class Practice / Student Output	Homework / Revision
- Style multiple sections with classes - Create button class - Apply background and typography	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 10: Box Model and Spacing

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Content, padding, border and margin - Width and height - Border radius - Box sizing - Card layout basics	- Use visual example of box model - Demonstrate padding vs margin - Show card design with borders and shadow
Class Practice / Student Output	Homework / Revision
- Create profile cards - Add spacing and border radius - Use box-sizing border-box	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 11: Display and Positioning

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Block, inline and inline-block - Display none - Static, relative, absolute and fixed positioning - Z-index basics	- Explain how elements flow on page - Demonstrate fixed navbar and positioned badge - Show common positioning mistakes
Class Practice / Student Output	Homework / Revision
- Create fixed header - Add absolute label on card - Practice display differences	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 12: Flexbox Layout

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Flex container and flex items - Direction, wrap and gap - Justify-content and align-items - Navigation layout - Card row layout	- Explain one-dimensional layout - Demonstrate responsive cards using flex-wrap - Show navbar alignment
Class Practice / Student Output	Homework / Revision
- Build responsive navigation - Create service cards with Flexbox - Adjust spacing and alignment	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 13: CSS Grid Layout

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Grid container - Rows and columns - fr unit - Gap - Grid template areas overview - Responsive gallery	- Explain two-dimensional layout - Demonstrate gallery grid - Show when Grid is better than Flexbox
Class Practice / Student Output	Homework / Revision
- Build image gallery - Create dashboard-like section - Make grid responsive	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 14: Transitions, Hover Effects and Animations

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Transition property - Hover states - Transform scale/translate basics - Keyframes - Animation duration and timing	- Explain smooth UI feedback - Demonstrate button hover and card hover - Create a simple keyframe animation
Class Practice / Student Output	Homework / Revision
- Add hover effects to cards - Animate hero heading or icon - Test animation speed	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 15: Responsive Web Design

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Mobile-first approach - Media queries - Breakpoints - Responsive images - Testing with developer tools	- Explain designing for phone, tablet and desktop - Demonstrate media query changes - Show responsive preview in browser tools
Class Practice / Student Output	Homework / Revision
- Make landing page mobile-friendly - Adjust navbar and cards - Test on multiple screen widths	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 16: Bootstrap or Tailwind CSS Introduction

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Why frameworks are used - Bootstrap grid and components overview - Tailwind utility classes overview - When to use custom CSS vs framework	- Explain fast UI development with frameworks - Demonstrate one Bootstrap/Tailwind component - Compare framework output with custom CSS
Class Practice / Student Output	Homework / Revision
- Create one section with a framework - Customize spacing and colors - Discuss pros and limits	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 17: Website Project Build

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Project idea - Wireframe - Section planning - Navigation, hero, services, gallery/contact - Responsive checks - Final polish	- Guide students section by section - Review code organization - Help fix layout and responsiveness issues
Class Practice / Student Output	Homework / Revision
- Build a portfolio, restaurant or business website - Add at least 5 sections - Make it responsive	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Module 18: Project Presentation and Review

Topics to be Covered	What Teacher Will Explain / Demonstrate
- Final testing - Code cleanup - Browser compatibility check - Project presentation - Feedback and improvements	- Ask students to explain HTML structure and CSS layout choices - Review common mistakes - Suggest improvements for real-world quality
Class Practice / Student Output	Homework / Revision
- Present website - Submit project folder - Complete final improvement list	- Revise the class notes and complete a small improvement in the class project. - Write down two doubts or two new things learned in the module.

Final Review and Certification Checklist

- Student can explain the main concepts in simple words.
- Student has completed the required practice tasks and mini projects.
- Student can run the project, fix common errors and present the work confidently.
- For advanced courses, student should submit GitHub repository, screenshots and deployment link where possible.