

Basics of Web Design (HTML & CSS)

Thematic unit 1: Introduction to HTML

Goal:	Introducing students to the basics of HTML, the structure of HTML documents and the purpose of HTML tags.
Topics covered:	<ul style="list-style-type: none">• Structure of HTML documents• Purpose of HTML marks (tags)• Creating a simple HTML document with headings, paragraphs and lists.
Activities:	<ul style="list-style-type: none">• Demonstration: Show students the basic structure of an HTML document.• Hands-on exercise: Students create a simple HTML document with headings, paragraphs, and lists.

Thematic unit 2: HTML elements and attributes

Goal:	Introducing students to different HTML elements, their attributes and practicing using attributes such as href, src and alt.
Topics covered:	<ul style="list-style-type: none">• Various HTML elements (links, images, tables)• Use of attributes with elements• Practice using attributes like href, src, alt
Activities:	<ul style="list-style-type: none">• Discussion: Explain the purpose and use of common HTML elements and their attributes.• Hands-on exercise: Students practice using attributes like href, src, and alt to create links, images, and tables.

Thematic unit 3: Basics of CSS

Goal:	Introducing students to CSS, its syntax and different ways of applying CSS to HTML documents.
Topics covered:	<ul style="list-style-type: none">• Introduction to CSS and its purpose• CSS syntax• Embedded, internal and external CSS
Activities:	<ul style="list-style-type: none">• Presentation: Explain the role of CSS in styling HTML documents.• Demonstration: Show examples of CSS syntax and how to apply CSS internal, external and in-line.

Thematic unit 4: CSS Box Model

Goal:	Teach students about the CSS Box Model and how to apply it to create structured layouts.
Topics covered:	<ul style="list-style-type: none">• CSS Box Model (content, padding, border, margin)• Application of Box Model to create a layout
Activities:	<ul style="list-style-type: none">• Presentation: Explain the concept of CSS Box Model and its components.• Hands-on exercise: Students create a schedule using the Box Model for structuring content with padding, border and margin.

Thematic unit 5: CSS selectors and properties

Goal:	Introduce students to different CSS selectors and commonly used CSS properties.
Topics covered:	<ul style="list-style-type: none">• Different types of CSS selectors (element, class, ID)• Frequently used CSS properties (color, font, background)
Activities:	<ul style="list-style-type: none">• Presentation: Explain the purpose and use of various CSS selectors and properties.• Hands-on exercise: Students practice styling HTML elements using various CSS selectors and properties.

Thematic unit 6: Responsive CSS

Goal:	Teach the students about the principles of responsive web design and how to create responsive layouts using CSS media queries.
Topics covered:	<ul style="list-style-type: none">• Responsive web design principles• Media queries and their use for responsive layouts
Activities:	<ul style="list-style-type: none">• Presentation: Explain the importance of responsive design and how media queries work.• Hands-on exercise: Students create a simple responsive site using media queries to adjust the layout for different screen sizes.

Thematic unit 7: CSS Flexbox and Grid

Goal:	Introduce students to CSS Flexbox and Grid for creating flexible and grid-based layouts.
Topics covered:	<ul style="list-style-type: none"> • CSS Flexbox for flexible layouts • CSS Grid for grid-based layouts
Activities:	<ul style="list-style-type: none"> • Presentation: Explain the concepts of Flexbox and Grid and their benefits in layout design. • Hands-on exercise: Students practice creating layouts using Flexbox and Grid.

Thematic unit 8: Project: Creating a website

Goal:	Applying HTML and CSS skills to create a complete website.
Topics covered:	<ul style="list-style-type: none"> • Combining HTML and CSS to create a site • Organization of files and folders for a web project
Activities:	<ul style="list-style-type: none"> • Project Overview: Provide a brief overview of the project and the requirements for creating the website. • Project development: Students work on their project sites, with the guidance and help of lecturers as needed. • Presentation: Students present their completed websites, showcasing their HTML and CSS skills.

Each thematic unit is covered for 2 hours.