Semester Description

1st semester focuses on the construction of websites. You will be introduced to the technologies HTML and CSS.
The semester holds 11 lectures based on instruction and training through exercises, tasks, and assignments.
To achieve a satisfactory outcome, you must expect 4 hours of homework corresponding to each lecture.

Across the semester, there will be an introduction to and work with concepts like Responsive Web Design (RWD), Mobile First and Separate URLs, all representing attempts to adapt "construction of websites" to handle different devices such as laptops, tablets and smartphones.

Almost every lecture includes an exercise, a mandatory assignment. See below.
The students will also have the opportunity to practice and challenge their skills in connection with the four interdisciplinary projects, of which the latter is the test exam on 1st semester.

At the end of the semester you will be able to construct a website that supports "best practice", which means that the site is optimized for different devices, that the site is coded in HTML5 using semantic elements, that the code is valid, and that the site is SEO-optimized and optimized in terms of performance (page loading speed).

What is mandatory?

It is mandatory to attend class:
You are expected to attend class well prepared. See the lecture plan below including literature.
It is mandatory to meet deadline regarding all compulsory assignments:
Deadline is often right before the start of the subsequent lecture
Hand-in of assignments takes place on Canvas. You are *not* expected at all times to have solved all parts of the assignments.

There are nine compulsory assignments regarding this subject on 1st Semester.

Expectations

What are my expectations?
• You are ambitious: Attending well prepared, 4 hours of class = min. 4 hours of homework
• You attend class on time, meet deadlines
• You fulfil mandatory assignments (see Lecture Plan below)
• Dialog is welcome
What are your expectations?

Lecture Plan

[Project 1.1: Aarhus, European Capital of Culture 2017]

30.08 8:30	6 lessons	HTML and CSS: Introduction HTML and CSS: Chapter 1, Web Page Building Blocks HTML and CSS: Chapter 2, Working with Web Page Files Assignment "Remember my Name" and assignment "Publishing Website" (Compulsory hand-in)
05.09 8:30	6 lessons	HTML and CSS: Chapter 3, Basic HTML Structure HTML and CSS: Chapter 4, Text HTML and CSS: Chapter 5, Images (+ picture element: https://developer.mozilla.org/en-US/docs/Web/HTML/Element/picture) HTML and CSS: Chapter 6, Links Google´s SEO Guide: https://static.googleusercontent.com/media/www.google.com/en//webmasters/docs/search-engine-optimization-starter-guide.pdf Assignment 1 (Compulsory hand-in)
08.09 8:30	4 lessons	HTML and CSS: Chapter 7, CSS Building Blocks HTML and CSS: Chapter 8, Working with Style Sheets HTML and CSS: Chapter 9, Defining Selectors Brackets: Lisa Catalano: Quick Coding with Brackets Tutorials: http://css-snippets.com/brackets-course/ Assignment 2 (Compulsory hand-in)
12.09 8:30	6 lessons	HTML and CSS: Chapter 10, Formatting Text with Styles HTML and CSS: Chapter 11, Layout with Styles HTML and CSS: Chapter 15, Lists CSS Flexbox: https://css-tricks.com/snippets/css/a-guide-to-flexbox/ Performance 1: https://www.youtube.com/watch?v=tN9-abn5tRI (video 2:36)

[Project 1.2: Content]

26.09 8:30	6 lessons	HTML and CSS: Chapter 17, Video, Audio and Other Multimedia HTML and CSS: Chapter 13, Working with Web Fonts HTML and CSS: Chapter 14, Enhancements and Effects with CSS Chrome DevTools: https://developers.google.com/web/tools/chrome-devtools/ Assignment 3 (Compulsory hand-in)
03.10 8:30	6 lessons	HTML and CSS: Chapter 12, Building Responsive Webpages The 2014 Guide to Responsive Web Design: http://blog.teamtreehouse.com/modern-field-guide-responsive-web-design GitHub: James Williamson: Github for Web Designers: https://www.lynda.com/GitHub-tutorials/GitHub-Web-Designers/162276-2.htm Assignment 4 (Compulsory hand-in)

27.10-15.11		[Project 1.3: Mobile First]
31.10 8:30	6 lessons	Mobile First (Luke Wroblewski: http://vimeo.com/38187066 (video 1:02:31) Mobile First, Content First: http://www.youtube.com/watch?v=OHUa2_JXH9Y (video 12:21) Responsive Navigation: http://responsivenavigation.net/ Assignment 5 (Compulsory hand-in)
07.11 8:30	6 lessons	Performance 2: https://developer.yahoo.com/performance/rules.html CSS Frameworks: Bootstrap, Skeleton, HTML5 Boilerplate etc.: http://bestreviews2017.com/best-css-framework-2017/ HTML5 Boilerplate: https://html5boilerplate.com/ Assignment 6 (Compulsory hand-in)
14.11 8:30	6 lessons	Mobile Sites: Implementation Strategies: https://www.design19.org/blog/responsive-design-separate-website-dynamic-serving/ Dynamic Serving (PHP): http://www.vervesearch.com/blog/the-ultimate-guide-to-developing-mobile-websites/ RESS: Responsive + Server Side Components: http://www.lukew.com/ff/entry.asp?1392 User Agent Detection: http://mobiledetect.net/
24.11-19.12		[Project 1.4: Exam Project – Portfolio]
30.11 8:30	6 lessons	Working with Github and Portfolio GitHub: James Williamson: Github for Web Designers: https://www.lynda.com/GitHub-tutorials/GitHub-Web-Designers/162276-2.htm Advanced CSS, CSS Pre-processors, CSS Grid Learn SASS in 15 Minutes: https://tutorialzine.com/2016/01/learn-sass-in-15-minutes A Complete Guide to Grid: https://css-tricks.com/snippets/css/complete-guide-grid/ Assignment 7 (Compulsory hand-in)
05.12 8:30	6 lessons	Working with Portfolio (Recap: Best Practice, Validation, Performance) Interaction in relation to Exam, Report writing: Reportwriting-Interaction.pdf. Semester Evaluation [Exam]

Literature 1st Semester

Primary
HTML + CSS: E. Castro & B. Hyslop: HTML and CSS, 8th Ed., Peachpit Press
Picture element: https://developer.mozilla.org/en-US/docs/Web/HTML/Element/picture
CSS Flexbox: https://css-tricks.com/snippets/css/a-guide-to-flexbox/
Chrome DevTools: https://developers.google.com/web/tools/chrome-devtools/
Mobile First (Luke Wroblewski: http://vimeo.com/38187066 (video 1:02:31)
The 2014 Guide to Responsive Web Design: http://blog.teamtreehouse.com/modern-field-guide-responsive-web-design
Google´s SEO Guide:
http://static.googleusercontent.com/media/www.google.com/en//webmasters/docs/search-engine-optimization-starter-guide.pdf
Performance: https://developer.yahoo.com/performance/rules.html
Brackets: Lisa Catalano: Quick Coding with Brackets Tutorials: http://css-snippets.com/brackets-course/
GitHub: James Williamson: Github for Web Designers: https://www.lynda.com/GitHub-tutorials/GitHub-Web-Designers/162276-2.htm

Secondary
HTML Tutorial: http://www.w3schools.com/html/html5_intro.asp
CSS Tutorial: http://www.w3schools.com/css/default.asp
Learn SASS in 15 Minutes: https://tutorialzine.com/2016/01/learn-sass-in-15-minutes
A Complete Guide to Grid: https://css-tricks.com/snippets/css/complete-guide-grid/

Alternative literature
Lynda.com:
HTML Essential Training with James Williamson, Chapter 0 - 7
CSS Fundamentals, with James Williamson
Making Sense of the CSS Box Model with Morten Rand-Hendriksen
Responsive Web Design in the Browser with Morten Rand-Hendriksen
Developing for Performance: HTTP/2 with Morten Rand-Hendriksen
CSS: Flexbox First Look with James Williamson

Codecademy.com:
HTML and CSS: https://www.codecademy.com/learn/web