Syllabus for

swe596 Dynamic Web

3 (3+0+0) ECTS 6

2020 Fall

My Motivation

Any new course calls for motivation. With HTML5, web become very powerful environment. It is possible to develop dynamic, interactive, animated web pages running on the client site, without support from the server site. Interestingly, it is possible to do so with pure javascript with minimum library support.

My interest in these is due to interactive online content development, which I am working on for some time. I like to share my findings during the course. I expect to learn from you, too.

Catalog Definition

HTML, CSS, javascript, DOM, dynamic web, interactive web, Math on web, dynamic graphics, SVG, animation, documentation and testing.

Some familiarity to HTML, CSS, javascript is necessary.

General Information

Instructor:	Haluk O. Bingol, BM-48
TA:	none
Student TA:	none
Course Schedule:	WWW 111213 @ online (covid term)
PS Schedule:	none

Grading

Grading is changed due to covid-19. We assume that there will be no in-class final. We tent to assign a homework every week.

Homework:	45 %
Final (Project):	40 %
Attendance and Contributions:	15 %

Text Book

- none

Reference Books

- none

Course Outline

Course is based on paper reading, presentations and discussions. A term project is designed, implemented, presented and reported as a paper.

Weekly Program (Tentative)

week	Subject
1.	HTML
2.	CSS
3.	DOM
4.	Javascript
5.	Dynamic web: javascript and HTML
6.	javascript with classes (ES5)
7.	Interactivity and UI
8.	Math on web: MathJax, MathML
9.	Graphics: SVG
10.	Dynamic graphics: SnapSVG
11.	Animation
12.	Documentation and Testing