

Istanbul Technical University – Department of Architecture
MIM 431E – Construction Project, 22393
Course Syllabus | 2019-2020 Spring Semester

Course Day and Hour:	Tuesday 13:30-17:30, Friday 08:30-12:30
Course Room:	-
Course Credit:	5
Course Web Site:	-

Course Instructor:	Assoc. Prof. Dr. Fatih YAZICIOĞLU
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Project Studio Description

22393 Construction Project studio aims the students to work on a very large scaled building with large span parts which will be a Sports Hall and Social Centre in ITU Maslak Campus. The studio aims the students to gain the ability about material selection and decision making on; building construction type and environmental control systems, structural system arrangement in comprehensive building design. Preparation of projects for all design stages (preliminary, developed, construction) according to building regulations (i.e. earthquake directive, thermal insulation directive, noise control directive, fire protection directive). Integration and coordination of building sub-systems (building elements, structural, service) with other building components. Preparing documents for each design stage according to the relevant national and/or international legislations and drawing principles.

Project Studio Structure and Plan

The project studio aims to make students conceptually design a sports hall building in a very short time, 2 weeks maximum, and start detail designing it with wall section drawing developments in 1/20 and larger scales. This makes the students understand the details of the individual building elements and their junctions. Once the wall sections are developed and represented in 1/20 scale construction documentation step starts in 1/50 and larger scales.

Course Plan

WEEK	DATE	TOPIC
1	11.02.2020 – 14.02.2020	Architectural Conceptual Design
2	18.02.2020 – 21.02.2020	Architectural Structural Design
3	25.02.2020 – 28.02.2020	Architectural Structural Design
4	03.03.2020 – 06.03.2020	Facade Design
5	10.03.2020 – 13.03.2020	Wall Section Development
6	17.03.2020 – 20.03.2020	Wall Section Development
7	24.03.2020 – 27.03.2020	Wall Section Development – Midterm Submission
8	07.04.2020 – 10.04.2020	Wall Section Development
9	14.04.2020 – 17.04.2020	Construction Documentation – 1/50 Plans
10	21.04.2020 – 24.04.2020	Construction Documentation – 1/50 Section
11	28.04.2020 – 01.05.2020	Construction Documentation – 1/50 Elevation
12	05.05.2020 – 08.05.2020	Construction Documentation – 1/50 Stairs and Wet Floors
13	12.05.2020 – 15.05.2020	Conceptual Emergency Escape Plans
14	19.05.2020 – 22.05.2020	Conceptual HVAC Plans

Recommended Readings

Construction law, Construction inspection law, Bosphorus law, Earthquake directive, Fire directive, Elevator directive, and other construction related directives

Project Studio Assessment

At the 7th week of the term a midterm submission will be made. The submissions will be assessed according to the representation of the conceptual design in 1/200 scale technical drawings, structural design in 1/200 scale plans and partial floor sections, and facade design in 1/100 scale. The midterm submission will shape 40 % of the overall grade.

At the end of the term a final submission will be made. The submissions will be assessed according to the accuracy and detail level of the 1/50 scaled plan, section, and elevation drawings, 1/20 wall section drawings, stair drawings, wet floor drawings, and conceptual emergency escape and HVAC plans. The final submission will shape 60 % of the overall grade.

Contributors

At the 7th week and final submission day of the term a project jury will be made with the participation of experts on conceptual design, structural design and detail design.