

Istanbul Technical University – Department of Architecture
MIM 484E – Construction Project, 23437
Course Syllabus | 2020-2021 Spring Semester

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

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Project Studio Description

23437 Construction Project studio aims the students to work on the construction documentation of a small scaled building. 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 construction project 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. The students are also going to work on Room and Finishing Schedule, Window and Door Schedule, Technical Specification, Bill of Quantity, Work Breakdown and Timeline Schedule, Construction Method Report.

Project Studio Structure and Plan

In this project studio a building which's design development has been completed will be given to the students. The students will firstly design the structural system and the foundations, and continue with wall section drawings. Upon on the completion of these drawings 1/50 scaled plans, sections, and elevations will be prepared. All of these which form the construction project will be finished in the middle of the term and they will be submitted. In the second half of the term the rest of the construction documentation which comprises of Room and Finishing Schedule, Window and Door Schedule, Technical Specification, Bill of Quantity, Work Breakdown and Timeline Schedule, Construction Method Report will be worked.

Course Plan

WEEK	DATE	TOPIC
1	02.03.2021 – 05.03.2021	Evaluation of Regulations – Structural Design Development
2	09.03.2021 – 12.03.2021	Construction Project Development – Material Decision
3	16.03.2021 – 19.03.2021	Construction Project Development – Wall Sections
4	23.03.2021 – 26.03.2021	Construction Project Development – Floor and Ceiling Plans
5	30.03.2021 – 02.04.2021	Construction Project Development – Sections & Elevations
6	06.04.2021 – 09.04.2021	Construction Project Development – Junction Details
7	13.04.2021 – 16.04.2021	Construction Project Development – Integration
8	20.04.2021 – 23.04.2021	Jury – Midterm Submission
9	27.04.2021 – 30.04.2021	Room and Finishing Schedule, Window and Door Schedule
10	04.05.2021 – 07.05.2021	Bill of Quantity and Cost Estimation
11	11.05.2021 – 14.05.2021	Work Breakdown and Timeline Schedule
12	18.05.2021 – 21.05.2021	Conceptual HVAC, Life safety Drawings, Lighting Design
13	25.05.2021 – 28.05.2021	Technical Specification and Construction Method Report
14	01.06.2021 – 04.06.2021	Integration of All Documents
15	08.06.2021 – 11.06.2021	Integration of All Documents

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 construction project. 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, Room and Finishing Schedule, Window and Door Schedule, Technical Specification, Bill of Quantity, Work Breakdown and Timeline Schedule, Construction Method Report. 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 structural design and detail design.