

Istanbul Technical University – Department of Architecture
MIM 411E – Construction Project, 23434
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 : http://www.sis.itu.edu.tr/tr/icerik/icerik.php?subj=MIM&numb=431

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Project Studio Description

Building construction, environmental control systems and project management within the scope of detailed project. Preparation of detailed project. Preparation of detailed project according to building codes and regulations such as earthquake. Integration of building sub-systems such as load bearing, installation, mechanical, electrical systems. Preparing documents and detail drawings according to municipal drawing principles.

Learning Objectives and Outcomes

The aim of this course is;

1. Subsystem development in accordance with building function, Impartment of the skill for finding architectural solutions with consideration to technical and legislative factors as well as aesthetical, in the process of integration establishment between subsystems.
2. Teaching how to select building materials.
3. Achieving the development of detail projects at all scales for building elements and the preparation of a design completed for construction.

Project Studio Structure and Plan

The course is organized around giving information about construction projects. During the term, the importance, the determination and the evaluation of construction projects with the guides of principal decisions on constructional design are explained. Each week, as explained in the weekly schedule below, determination of subsystem strategies, configuration of structural systems, arrangement of environmental control systems, preparation of building elements, detail design...etc. are examined in detail.

The course is organized weekly like this:

Course Plan

WEEK 1	Determination of the preliminary project for execution
WEEK 2	Analysis of site and project information
WEEK 3	Principal decisions on constructional design
WEEK 4	Determination of subsystem strategies
WEEK 5	Configuration of structural systems
WEEK 6	Arrangement of environmental control systems
WEEK 7	Preparation of building elements
WEEK 8	Definition of building materials
WEEK 9	Deliberation on project management
WEEK 10	Subsystem integration
WEEK 11	Final constructional design (interim submission)
WEEK 12	Detail design.
WEEK 13	Detail design.
WEEK 14	Detail design.

Recommended Readings

- Neufert,E., 2019, Neufert Yapı Tasarımı, Beta Yayıncılık, İstanbul
- Sarı, A., 2019, Düşey Sirkülasyon Araçları Merdivenler, YEM Yayın, İstanbul
- Ambrose, J., Tripeny, P., 2012. Building structures. Hoboken, N.J.: Wiley
- Hegger, M., Auch-Schwelk, V., Fuchs, M., & Rosenkranz, T., 2006. Construction materials manual. Basel: Birkhäuser
- Lechner, N., 2015. Heating, cooling, lighting : Sustainable design methods for architects. Hoboken, N.J.: Wiley
- Rich, P., Dean, Y., 1999. Principles of Element Design. Oxford: Architectural Press.
- Wienand, N., 2008. Materials, Specification and Detailing: Foundations of Building Design. Abingdon: Taylor & Francis.

Binalarda Enerji Performansı Yönetmeliđi (2008, 5 Aralık). Resmî Gazete, Sayı: 27075
Binaların Gürültüye Karşı Korunması Hakkında Yönetmelik (2017, 31 Mayıs). Resmî Gazete, Sayı: 30082
Binaların Yangından Korunması Hakkında Yönetmelik (2007, 19 Aralık). Resmî Gazete, Sayı: 26735
İstanbul İmar Yönetmeliđi (2018, 20 Mayıs). Resmî Gazete, Sayı: 30426 Türkiye Bina Deprem Yönetmeliđi (2018, 18 Mart). Resmî Gazete, Sayı: 30364 TSE, 2013. TS825: Binalarda Isı Yalıtım Kuralları. Ankara: TSE.
TMMOB, MO, 2015. Mimari Proje Çizim ve Sunuş Standartları. İstanbul: TMMOB, İstanbul Büyükkent Şubesi.
TMMOB, MO, 2015. Ulaşılabilirlik Kılavuzu. İstanbul: TMMOB, MO, İstanbul Büyükkent Şubesi.

Project Studio Assessment

Midterm project	: % 40
Midterm reports	: % 10
Final Project	: % 50
FINAL	: % 100