

Istanbul Technical University – Department of Architecture
MIM 162E – Intr.to Building Construction, CRN 22101
 Course Syllabus | 2019-2020 Spring Semester

Course Day and Hour : tuesday, 10.30-12.30
Course Room : -
Course Credit :2+0
Course Web Site :-

Course Instructor: M. Cem ALTUN
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Course Assistant/s: -
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Course Description

Concepts of building, architectural and construction technology. Interaction of user-environment-building and introduction of environmental factors and expected performance characteristics in this context. Introduction of building subsystems. Introducing different types, design criteria, construction methods of external wall systems, window and door systems, floor systems, vertical circulation systems, roof systems, partition systems.

Course Objectives:

1. To understand concepts of building, building sub-systems.
2. To understand building element systems.
3. To understand of building construction methods in the context of building elements.

Course Structure and Plan

Course Plan

WEEK	DATE	TOPIC
1	11.02	Introduction, concepts:Technology, Performance approach, systems approach, User-Building-Environment Interaction
2	18.02	Building-subsystems, structural systems , Construction methods, assembly techniques and analysis principles
3	25.02	External Wall systems: Classification
4	03.03	External Wall systems: Examples, design criteria, assembly
5	10.03	Wall openings (window systems, door systems and curtain wall systems): Classification
6	17.03	Wall openings (window systems, door systems and curtain wall systems): Examples, design criteria, assembly
7	24.03	Roof systems: Classification
8	31.03	Mid-term break
9	07.04	Roof systems: Examples, design criteria, assembly
10	14.04	Mid-term exam
11	21.04	Floor systems: Classification
12	28.04	Floor systems: Examples, design criteria, assembly
13	05.05	Vertical circulation systems: stairs and ramps: Classification
14	12.05	Vertical circulation systems: stairs and ramps: Examples, design criteria, assembly
15	19.05	Partition Systems: Classification & Examples

Recommended Readings

- Allen, E., Iano, J., 2014. Fundamentals of Building Construction : Materials and Methods. Hoboken, N.J.: Wiley.
 Ching, F. 2014. Building construction illustrated. Hoboken, N.J.: Wiley.
 Reid, E., 1984. Understanding Buildings, A Multidisciplinary Approach, Construction Press.

Course Assessment

Mid-term Exam: %40 (min. grade: 30)

Final Exam: %60