

Istanbul Technical University – Department of Architecture  
MIM 204E – Fatih Yazıcıoğlu, 22122  
Course Syllabus | 2019-2020 Spring Semester

Course Day and Hour : Wednesday, 09:30-12:30, 13:30-15:30
Course Room : 3503
Course Credit : 4
Course Web Site : -

Course Instructor: Assoc. Prof. Dr. Fatih Yazıcıoğlu
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Course Assistant/s: -
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## Course Description

Analysis, design and integration of building elements. External wall systems (walls in contact with atmosphere and ground), window and door systems, floor systems (ground, intermediate and exposed-soffit floors, suspended ceilings, raised floors), vertical circulation systems (ramps and stairs), roof systems (flat and sloping roofs), partition systems (fixed and moveable partitions). Design of building envelope systems, intermediate floor systems, stairs and partition systems within the framework of constructional design requirements, criteria and resources. Integration of building materials and assemblies in building element design. Integration of building element systems with each other and the structural system in line with the holistic approach. Making technically clear drawings and preparing models illustrating and identifying the assembly of materials, systems, and components appropriate for a building element design.

Application-studio work: Analysis, design and integration of each building element and their intersections according to pre-defined criteria and constraints.

## Course Structure and Plan

### Course Plan

WEEK	DATE	TOPIC
1	12.02.2020	Conceptual design
2	19.02.2020	Environmental sustainability analysis
3	26.02.2020	Structural design
4	04.03.2020	Foundation design
5	11.03.2020	Floor system
6	18.03.2020	Vertical circulation system
7	25.03.2020	External wall structural system
8	08.04.2020	External wall insulations and finishing
9	15.04.2020	U Value Calculations
10	22.04.2020	Roof system
11	29.04.2020	Internal division system
12	06.05.2020	Materials poster
13	13.05.2020	Physical model
14	20.05.2020	Integration

## Recommended Readings

Emmitt, S., (2012). Architectural Technology, John Wiley & Sons, Oxford, UK

Allen, E. And Rand, P. (2007). Architectural Detailing: Function, Constructability, Aesthetics, John Wiley & Sons, Hoboken, NJ.

Fleming, E. (2005). Construction Technology An Illustrated Introduction, Blackwell, Oxford, UK

Emmitt, S. And Yeomans, D. T., (2001). Specifying Buildings, Butterworth-Heinemann, Oxford, UK

Emmitt, S. And Gorse, C. (2003). Construction Communication, Blackwell, UK.

Silver, P. and McLean, W. (2008). Introduction to Architectural Technology, Laurence King, UK

## Course Assessment

Mid-term submission - %40

Final exam - %60

## Contributors