

Istanbul Technical University – Department of Architecture
MIM 333E – Building Production Systems, 22301
Course Syllabus | 2019-2020 Spring Semester

Course Day and Hour: Friday, 13:30-15:30
Course Room:
Course Credit: 2
Course Web Site:

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Course Description

In this course, the concept, components, structure, environment of building production systems (BPS), its differences from other systems; product, demand characteristics of building, the effects on production are emphasized. Following the analysis of the BPS in parallel with the social, technological developments in time; conventional, rationalized, industrialized BPS are described. Main actors; their roles, responsibilities; effects on the decisions taken during the process; their positive, negative characteristics as well as production process are evaluated according to resource utilization, speed, quality, the advantages. Limitations of BPS are emphasized in terms of design.

Course Structure and Plan

Course Plan

WEEK	DATE	TOPIC
1	14.02.2020	Course Information and Introduction to Learning Stations
2	21.02.2020	What is Technology? Analysis of A Technological System
3	28.02.2020	Practical Studies and Classroom Presentations
4	06.03.2020	Production Systems
5	13.03.2020	Characteristics of the Building Industry
6	20.03.2020	Practical Studies and Classroom Presentations
7	27.03.2020	Classifications of the Building Production Systems
8	10.04.2020	Mid-term Examination
9	17.04.2020	Efficiency and Productivity in Building Production
10	24.04.2020	Practical Studies and Classroom Presentations
11	01.05.2020	Public Holiday
12	08.05.2020	Innovation in Building Production
13	15.05.2020	Practical Studies and Classroom Presentations
14	22.05.2020	Practical Studies and Classroom Presentations

Recommended Readings

Jonsson, H., & Rudberg, M. (2014). Classification of production systems for industrialized building: a production strategy perspective. *Construction Management and Economics*, 32(1-2), 53-69.

Moore D.R. & Hague D.J., *Building Production Management Techniques*, Longman, 1999.

A.G.F. Gibb. *Off-site Fabrication: Prefabrication, Pre-assembly and Modularisation*. John Wiley & Sons, New York, 1999.

Course Assessment

The average of mid-term examination score and practical study/presentation scores should be at least 40 points to take the final exam.

Mid-Term Exam: 20%; Practical Studies and Classroom Presentations: 40%; Final Exam: 40%

Contributors

Students are encouraged to invite guest speakers and building industry experts as part of their Learning Station designs.