

TOROS ÜNİVERSİTESİ

Faculty Of Fine Arts, Design And Architecture
Architecture

Course Information

INDUSTRIALIZED CONSTRUCTION TECHNIQUES					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
ARC355	Fall	3	0	3	3

Prerequisites and co-requisites	None
Language of instruction	Turkish
Type	Elective
Level of Course	Bachelor's
Lecturer	Prof. Dr. Necati ŞEN
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	The aim of this elective course is to transfer the development of the construction systems to the information environment within the framework of a certain method.
Contents of the Course	Definition of Building Production System (BPS). Elements of BPS: resources, process and product. Constraints of BPS: environment, aims, criteria. Development of BPS from standpoints of resources, process, product and organization in parallel with social and technological changes. Characteristics of building sector. The product characteristics and demand characteristics in the building production. Evaluation of building systems in terms of resource utilization/speed/quality. Principals in building system selection.

Learning Outcomes of Course

#	Learning Outcomes
1	Integration of building systems
2	To design comprehensively
3	Professional development
4	To examine and comprehend the fundamental principles present in relevant precedents and to make choices regarding the incorporation of such principles into architectural projects

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	General information about the course	
2	Industrialization	
3		
4	Determination of elements in one dimension, two dimension, three dimension according to AA.OM1 and dimensional determinations of element morphology	
5	Industrialization of production	
6	Production systems for limited-area residences	
7	Types of prefabrication in industrialization of production	
8	Mid-term Exam	

9	Types of prefabrication	
10	The most traditional types of prefabrication	
11	Fully industrialized prefabrication	
12	Cellular prefabrication consisting of three dimensional components	
13	Application	
14	Application	
15	Application	
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	N.Şen,Yapı Strüktürüne İklim Etkisi,Doktora tezi		
2	Prefabrication o meta progetto: M.Oliver		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Integration of building systems	10,14	1,2
2	To design comprehensively	10	1,2
3	Professional development	14	1,2
4	To examine and comprehend the fundamental principles present in relevant precedents and to make choices regarding the incorporation of such principles into architectural projects	2,4	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	2	28
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	6	6
8	Midterm Exam	1	2	2
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0

14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	9	9
16	Final Exam	1	3	3
				90