

TOROS ÜNİVERSİTESİ

Faculty Of Fine Arts, Design And Architecture
Architecture

Course Information

CONSTRUCTION II					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
ARC234	Spring	3	0	3	3

Prerequisites and co-requisites	
Language of instruction	Turkish
Type	Required
Level of Course	Bachelor's
Lecturer	Öğr. Gör. Ayşe MANAV, Öğr. Gör. Meltem AKYÜREK
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	Give basic information that is enough for students create design and application projects by dealing construction elements such as vertical circulation equipments and roofs separately.
Contents of the Course	This course gives theoretical and practical information about vertical circulation equipments (stairs, slopes, escalators and elevators) and roofs.

Learning Outcomes of Course

#	Learning Outcomes
1	Learning; the buildings floor materials, partitions, walls, ceilings, doors, installations, insulations, glazings
2	Learning; the buildings floor coverings, wall finishings and can adapt these designs to their interior design projects
3	Will be able to understand the regulation concerning the construction.
4	To know how to draw details and construction

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Information about the content of the course and source books	Lecture and Discussion
2	Vertical Circulation Tools - Stairs (Classifications-Calculations) -Practice I	Lecture and Discussion,Drawing study
3	Arrangement and Transport of Stairs - Masonry Stairs - Reinforced Concrete Stairs - Wooden Stairs	Lecture and Discussion
4	Metal Stairs - Mixed Stairs - Railing - Stairs in the Plan - Ramps - Escalators - Elevators	Lecture and Discussion
5	Practice II	Drawing study
6	Practice III	Drawing study
7	Balancing-Stair Balancing Rules-Proportional Division Method for Half-Rotational Stairs-Practice IV	Lecture and Discussion,Drawing study
8	Midterm	Written and drawing quiz
9	Balancing with Escape Line on Half Rotational Stairs(Flight-line)-Practice 5	Lecture and Discussion, Drawing study and homework
10	Roofs-Flat (Terrace) Roofs-Curved Roofs-Wooden Snap Roofs-Wooden Suspended Roofs-Wooden Truss	Lecture and Discussion

	Systems-Wood + Steel Composite Systems	
11	Çelik Çatı Konstrüksiyonlar-Steel Plane Lattice Beams-Steel Space Lattice Beams-Steel Space Lattice System-Roof Classifications- Roof Coverings-Water Purification on Crushed Roof	Lecture and Discussion
12	Practice 6	Model study
13	Practice 7	Model study
14	Practice 8	Drawing study
15	Overview of the Semester	Lecture and Discussion
16	Final Exam	Drawing examination

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Mimarlıkta Yapı-Yapım, Birsen Yayınevi, 2012, İstanbul (Prof. Dr. Erkin ERTEN)		
2	BİNAN, M. :Doğramalar 1-2,Ahşap Pencere ve Kapılar, İTÜ		
3	BİNAN, M./SUNGUROĞLU,İ./DİRİK,D./VENSÜREL,G. :Çatılar, İTÜ		
4	ILGAZ,T. :Az Eğimli Çatılarda, 'Isı ve Nem Korunumuyla' ilgili Teorik Esaslar, Erken Çatı Hasarları ve Bunların Nedenleri Üzerine Bir İnceleme, KTÜ		
5	SARI,A. :Düşey Sirkülasyon Araçları-Merdivenler		
6	TOYDEMİR,N./ÜNÜGÜR,M. :Kırmaçatılarım Çözümü İçin Özgün Bir Yöntem: Toygür Algoritması		
7	ANONİM:Soğuk Çatılar, T.C.Bayındırlık Bakanlığı Yapı İşleri Genel Müdürlüğü		
8	FRICK/KNÖLL/NEUMAN/WEINBRENNER :Baukonstruktionslehre, Teil 1-2		
9	F.D.K. CHING :The Visual Dictionary of Architecture		
10	FOSTER, J.S./HARRINGTON,R. :Structure and Fabric		

Method of Assessment

#	Weight	Work Type	Work Title
1	20%	Mid-Term Exam	Mid-Term Exam
2	30%	Homework	Homework
3	50%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Learning; the buildings floor materials, partitions, walls, ceilings, doors, installations, insulations, glazings	10	1,2
2	Learning; the buildings floor coverings, wall finishings and can adapt these designs to their interior design projects	10	1,2
3	Will be able to understand the regulation concerning the construction.	12	1,2
4	To know how to draw details and construction	10	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	3	42
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	0	0	0
8	Midterm Exam	1	2	2
9	Quiz	0	0	0
10	Homework	1	2	2
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	1	1
16	Final Exam	1	1	1
				90