

TOROS ÜNİVERSİTESİ

Faculty Of Fine Arts, Design And Architecture
Architecture

Course Information

ENERGY EFFICIENT BUILDING DESIGN					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
ARC371	Fall	3	0	3	3

Prerequisites and co-requisites	
Language of instruction	Turkish
Type	Elective
Level of Course	Bachelor's
Lecturer	Dr. Öğr. Ü. H. Fikret OKUTUCU
Mode of Delivery	Face to Face
Suggested Subject	
Professional practise (internship)	None
Objectives of the Course	Providing the creation of knowledge and belief that building healthy buildings and settlements suitable for human health by transferring basic principles related to nature data, that nature can be made useful by using the building through sun, wind, nem and rain building which nature gives to man. -To constitute the consiousness in building scale. - To give awarness in energy consumptions of glass curtain walls for the country. - the aim is To give the self-confidence for the students about their knowledge.
Contents of the Course	To give the knowledge about , the subject of the energy, environmental pollution during the energy production, the comparison of the energy efficient buildings to the other buildings, the importance of the subject while giving the suitable and unsuitable examples, the search of the elements for getting the heat energy from the sun, the principles of zonning in the design of buildings, its sections, its plans.

Learning Outcomes of Course

#	Learning Outcomes
1	To get basic knowledge about Energy Efficient Architecture
2	To get knowledge for the sustainable designs in scientific and technological aspects.
3	To be able to search in Architecture scientifically.
4	To learn about the differences of the requirements of physical environment and human needs and activities.
5	To follow the new technologies in the developments of professional practice.
6	To use graphical techniques and fluent English to follow the literature, project presentation and article writing

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	What is the Energy? The relation between the energy and the environment.	Lecture
2	The alternatives of the energy saving through the buidings.	Lecture
3	The heating elements for the sun energy.	Lecture
4	Making zonning in sections and plans.	Lecture
5	The details of the heating elements for the sun energy.	Lecture
6	The details of The heating elements for the sun energy.	Lecture
7	To determine the aspects of the design and the program of the requirements.	Lecture

8	MIDTERM	Exam
9	Design	Drawing practices
10	Design	Drawing practices
11	Design	Drawing practices
12	Midterm Jury.	Drawing practices
13	Design	Drawing practices
14	Design	
15	Final preapation week	Exam
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	Ciravoğlu, Aysen, 2010, Kentte, yaşamda, mimaride ekolojik perspektifler, mimarlar Odası yayını.		
2	Göksu, Çetin. Güneş Kent, Güneş Kitapları yayını.		
3	Internet bazlı kaynaklar,Tasarım ile ilgili kitaplar ve dergiler		

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	To get basic knowledge about Energy Efficient Architecture	4	1,2
2	To get knowledge for the sustainable designs in scientific and technological aspects.	11	1,2
3	To be able to search in Architecture scientifically.	14	1,2
4	To learn about the differences of the requirements of physical environment and human needs and activities.	3	1,2
5	To follow the new technologies in the developments of professional practice.	5	1,2
6	To use graphical techniques and fluent English to follow the literature, project presentation and article writing	15	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	1	14
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	4	4
9	Quiz	0	0	0
10	Homework	4	6	24
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	1	2	2
14	Final Exercise	0	0	0
15	Preparation for Final Exam	0	0	0
16	Final Exam	1	4	4
				90