

AIR CONDITIONING SYSTEMS

1	Course Title:	AIR CONDITIONING SYSTEMS	
2	Course Code:	İSOZ209	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. SALİH COŞKUN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	coskuns@uludag.edu.tr, 0224 2942398-353, Teknik Bilimler MYO İklimlendirme Soğutma Teknolojisi Görükle/BURSA	
17	Website:		
18	Objective of the Course:	With this course, it is aimed to gain qualifications to the students for installing central air conditioning system	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To able to select the components of central air-conditioning systems
		2	To able to install the main components of central air conditioning system
		3	To able to install the cooling tower system
		4	To able to install the chiller unit
		5	To able to cut in the central air conditioning systems
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21	Course Content:		
	Course Content:		
Week	Theoretical	Practice	
1	Introduction of the course		
2	Central air conditioning systems, air handling units	Guided problem solving	
3	Heat Load calculations	Guided problem solving	
4	Heat Load calculations	Guided problem solving	

5	Selection of heating and cooling unit	Guided problem solving
6	Selection of humidifier, filter and cooling tower units	Guided problem solving
7	Installation of the air handling unit	Experiments on devices in AC Lab.
8	Installation of the air handling unit	Experiments on devices in AC Lab.
9	Installation of the air handling unit	Experiments on devices in AC Lab.
10	Installation of the cooling tower	Experiments on devices in AC Lab.
11	Installation of the chiller unit	Experiments on devices in AC Lab.
12	Cut in the air handling unit and chiller unit	Experiments on devices in AC Lab.
13	Cut in the cooling tower	Experiments on devices in AC Lab.
14	Cut in the cooling tower	Experiments on devices in AC Lab.

22	Textbooks, References and/or Other Materials:	1. İklimlendirme Esasları, Recep Yamankaradeniz, İlhami Horuz, Salih Coşkun, Ömer Kaynaklı, Nurettin Yamankaradeniz, Dora yayıncılık, 2012. 2. Klima Santralleri, Mustafa Bilge, İSKAV Yayınları No: 1 3. Sunumlar
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	25.00
Quiz	0	0.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Contribution of Term (Year) Learning Activities to	50.00		
Practicals/Labs	14	2.00	28.00
Self study and Preparation to Success Grade	50.00	4.00	60.00
Homeworks	1	0.00	0.00
Projects	1	20.00	20.00
Measurement and Evaluation Techniques Used in the	1	11.00	11.00
Field Studies	1	11.00	11.00

24	ECTS / WORK LOAD TABLE			
Midterm Exams		1	2.00	2.00
Others		0	0.00	0.00
Final Exams		1	1.00	1.00
Total Work Load				152.00
Total work load/ 30 hr				5.00
ECTS Credit of the Course				4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	4	0	4	0	0	5	3	0	3	3	0	0	0	0	0
ÖK3	0	4	0	0	0	0	5	3	0	3	3	0	0	0	0	0
ÖK4	0	4	0	4	0	0	5	3	0	3	3	0	0	0	0	0

ÖK5	0	4	0	4	0	0	5	3	0	3	3	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							