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:	Doç.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
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	25.00
Quiz	0	0.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00
Contribution of Final Exam to Success Grade		50.00

Measurement and Evaluation Techniques Used in the Course

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preparation	15	4.00	60.00
Homeworks	1	0.00	0.00
Projects	1	20.00	20.00
Field Studies	1	11.00	11.00
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					
Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**