

REFRIGERATION SYSTEMS DESING

1	Course Title:	REFRIGERATION SYSTEMS DESING	
2	Course Code:	İSOZ208	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	No	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. SALİH COŞKUN	
15	Course Lecturers:	Yrd. Doç. Dr. Salih COŞKUN, Öğr. Gör. Dr. Nurettin YAMANKARADENİZ	
16	Contact information of the Course Coordinator:	Öğr. Gör. Kenan SAKA, Yenişehir İbrahim Orhan MYO İklimlendirme ve Soğutma Teknolojileri Programı YENİŞEHİR/BURSA Tel: 0224 773 60 42, kenansaka@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	In this course the purpose is having proficiency to design and assembly of cold room to student	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To understand the general properties and functions of cold room
		2	To design cold room
		3	To make preparation for assembly cold room
		4	To assembly cold room
		5	To learn components of cold room
		6	To learn electrical cycle of cold room
		7	To assembly components of col room
		8	To operate cold room
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Industrial refrigeration systems 1. Kind of industrial refrigeration systems 2. Cold rooms 3. Method of storage 4. Scaling cold rooms		

2	Materials of cold rooms			
3	Calculations of cooling loads			
4	Selecting components of refrigerators 1. Selectig of outlet components 2. Selectig of inlet components condensor			
5	Calculating of pipe diameters			
6	Assembling of panels Isolation of basement of room			
7	Assembling of door Setting of door			
8	Repeating courses and midterm exam			
9	Assembling of inlet components Assembling of outlet components			
10	Connections of pipes and accessories			
11	Assembling of electrical panel Electrical measuring and control devices			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		13	2.00	26.00
Practicals/Labs		13	2.00	26.00
14	Control of electrical and control devices Self study and preperation	12	2.00	24.00
Homeworks		6	2.00	12.00
Projects	Materials:	1	15.00	15.00
Field Studies		0	0.00	0.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Midterm exams		1	6.00	6.00
Others		1	1.00	1.00
Final Exams	Quiz	0	10.00	10.00
Total Work Load				120.00
Total work load/ 30 hr		1	50.00	4.00
Final Exam				
ECTS Credit of the Course				3.00
Contribution of Term (Year) Learning Activities to Success Grade		50.00		
Contribution of Final Exam to Success Grade		50.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course				
24	ECTS / WORK LOAD TABLE			

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16

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