REFRIGERATION BASICS											
1	Course Title:	REFRIG	ERATION BASICS								
2	Course Code:	İSOZ109									
3	Type of Course:	Compuls	ory								
4	Level of Course:	Short Cy	cle								
5	Year of Study:	1									
6	Semester:	1									
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 f	ace								
14	Course Coordinator:	Prof. Dr.	SALİH COŞKUN								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:										
17	Website:										
18	Objective of the Course:	Teaching cooling c	g the basic concepts of cooling, cooling methods and cycles.								
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Understanding the basic concepts of refrigeration								
		2	Understanding cooling methods and techniques								
		3	Learning the cooling cycles								
		4	Practicing theoretical and practical applications about refrigeration cycles								
		5	Learning the main components of refrigeration cycles								
		6									
		7									
		8									
		9									
		10									
21	Course Content:										
	Course Content:										
Week	Theoretical		Practice								
1	History of refrigeration and basic con refrigeration	cepts of	Practicing basic concepts of refrigeration								
2	Basic concepts of refrigeration cycles	S	Practicing cooling cycles								
3	Vapor compression refrigeration cycl working principles	e and its	Practicing vapor compression refrigeration cycle								
4	Thermodynamic analysis of vapor compression refrigeration cycle		Practicing vapor compression refrigeration cycle								

6         Thermodynamic analysis of absorption         Practicing absorption retrigeration cycle           7         Refrigerants         Practicing refrigerant           8         Midterm exam         Midterm exam           9         Basic concepts of condensers and types of condencers         Practicing condencers           10         Basic concepts of evaporators and types of evaporators         Practicing evaporators           11         Basic concepts of evaporator sof evaporators of evaporators of evaporator         Practicing expansion valves           12         Basic concepts of expansion valves         Practicing expansion valves         Item exam           14         Basic concepts of special refrigerant components         Cooling Technique and Heat Pump Applications           7         Refrigerantile         Practicing special refrigerant components           23         Assesment         Cooling Technique and Heat Pump Applications           7         Refrigerantile         1         Spldo           24         Textbooks, References and/or Other Materials:         Cooling Technique and Heat Pump Applications           7         Refrigerantile         1         Spldo         2.00         28.00           7         Practicals/Labs         1         Spldo         2.00         2.00         28.00	5	Absopti principle	on refr es	igerati	on cyo	cle and	its wo	orking	Pra	Practicing absoption refrigeration cycle											
7         Refrigerants         Practicing refrigerant           8         Midlerm exam         Midlerm exam           9         Basic concepts of condensers and types of evaporators and types of compressors         Practicing evaporators           10         Basic concepts of evaporators and types of compressors         Practicing evaporators           11         Basic concepts of expansion valves         Practicing expansion valves           12         Basic concepts of expansion valves         Practicing special refrigerant components           13         Basic concepts of special refrigerant         Practicing special refrigerant components           14         Basic concepts of special refrigerant         Practicing special refrigerant components           22         Textbooks, References and/or Other Materials:         Cooling Technique and Heat Pump Applications           Recep Yamankaradeniz, Salih Coşkun, lihami Horuz, Omer Kaynakli, Nuretlin Yamankaradeniz         Coal (hour)           7         Refrigerant freeerets         Number         Duration (hour)           7         Refrigerant freeerets         Number         Duration (hour)           7         Refrigerant freeerets         0         0.00           8         Number         0         0.00         0.00           9         0.00         0.00         0.00 <th>6</th> <th>Thermo refrigera</th> <th>dynam ation cy</th> <th>iic ana /cle</th> <th>lysis o</th> <th>of abso</th> <th>rption</th> <th></th> <th>Pra</th> <th colspan="9">Practicing absoption refrigeration cycle</th>	6	Thermo refrigera	dynam ation cy	iic ana /cle	lysis o	of abso	rption		Pra	Practicing absoption refrigeration cycle											
8         Midterm exam         Midterm exam           9         Basic concepts of condensers and types of condencer         Practicing condencers         Practicing condencers           10         Basic concepts of evaporators and types of evaporator         Practicing evaporators         Practicing compressors           11         Basic concepts of expansion valves         Practicing expansion valves         Practicing special refrigerant components           13         Basic concepts of special refrigerant components         Practicing special refrigerant components         Practicing special refrigerant components           22         Textbooks, References and/or Other Materials:         Number         Cooling Technique and Heat Pump Applications Recep Yamankaradeniz, Saih Coşkun, Inhami Houz, Omer Kaynakii, Nurettin Yamankaradeniz           23         Assesment         Number         Duration (hour)         Total Work Load (hour)           7         Number         Duration (hour)         Total Work Load (hour)         Total Work Load (hour)           8         Set Set Set Set Set Set Set Set Set Set	7	Refrige	Refrigerants								Practicing refrigerant										
9         Basic concepts of condensers and types of condencer         Practicing condencers           10         Basic concepts of expansion valves of compressor         Practicing expansion valves         Practicing expansion valves           12         Basic concepts of expansion valves         Practicing expansion valves         Practicing expansion valves           13         Basic concepts of special refrigerant components         Practicing expansion valves         Practicing expansion valves           14         Basic concepts of special refrigerant components         Practicing special refrigerant components         Practicing expansion valves           22         Textbooks, References and/or Other Materials:         NumBer         Cooling Technique and Heat Pump Applications Recep Yamankaradeniz, Salit Coskun, Ihami Horuz, Orner Kaynakli, Nurettin Yamankaradeniz         Total Work Load (hour)           23         Assement         NumBer         Duration (hour)         Total Work Load (hour)           7         Recep Yamankaradeniz, Salit Coskun, Ihami Horuz, Orner Kaynakli, Nurettin Yamankaradeniz         Outertion (hour)         Total Work Load (hour)           7         Recep Yamankaradeniz         Salit Coskun, Ihami Horuz, Orner Kaynakli, Nurettin Yamankaradeniz         Total Work Load (hour)           8         NumBer         0         0.00         28.00         28.00           8         1         6/do	8	Midterm	n exam						Mi	dterm	exam										
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Assesment         Number         Duration (hour)         Total Work Load (hour)           Finentei		Materia	ls:						Re	cen V	amank	aradoni	iz Salih	Cosk	un İlba	mi Horuz	7				
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PCTS Credit of the Course       4.00         25       CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME         PQ1       PQ2       PQ3       PQ4       PQ5       PQ6       PQ7       PQ8       PQ9       PQ1       PQ1       PQ1       PQ14       PQ14       PQ15       PQ16         ÖK1       0	Total work load/ 30 hr									3.93											
25       CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS         PQ1       PQ2       PQ3       PQ4       PQ5       PQ6       PQ7       PQ8       PQ9       PQ1       PQ12       PQ1       PQ14       PQ14       PQ15       PQ16         ÖK1       0	ECTS C	CTS Credit of the Course									4.00										
PQ1         PQ2         PQ3         PQ4         PQ5         PQ6         PQ7         PQ8         PQ9         PQ1         PQ11         PQ12         PQ1         PQ14         PQ15         PQ16           ÖK1         0	25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS											ME								
ÖK1       0		PQ	I PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16				
ÖK2       0	ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
ÖK3       0	ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
öκ4         0	ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

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