	FUNDAMENTALS	OF T	ECHNICAL INSTALLATION						
1	Course Title:	FUNDAN	MENTALS OF TECHNICAL INSTALLATION						
2	Course Code:	MAK421	3						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	ele						
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	-							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr.	MUHİDDİN CAN						
15	Course Lecturers:	Prof.Dr.F	RecepYAMANKARADENiZ						
16	Contact information of the Course Coordinator:	telefon: 2	sta: can@uludag.edu.tr on: 224 2941957 s: UÜMMF, Makine Müh. Blm.						
17	Website:								
18	Objective of the Course:	Heating, ventilation, air conditioning and fire installations, design, analysis and simulation of basic knowledge and skills to provides tudents what they need, is the main purpose of this course.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Prepare heating project						
		2	Prepare ventilation project						
		3	Design for air conditioning system						
		4	Design for fire installation system						
		5	Select the project equipments						
		6							
		7							
		8							
		9							
	Occurs Occuts of	10							
21	Course Content:	0-	urco Contonti						
Week	Theoretical	Co	Practice						
1	General information about heat trans	fer	1 TACHICE						
2	General information about heating sy								
3	Radiators	3.01110							
4	Pipe connections, installation system	ıs,							
	transmission components and syster								
5	Pipe diameter								

6	Insta	Installation of valves and fittings, fixtures																	
7	Heat	Heating devices																	
8	Repe	Repeating courses and midterm exam																	
9	Circu	Circulation pumps																	
10		Automatic control components used in heating systems																	
11	Boos	sters	and b	urner	S														
12	Ther	mal i	nsula	tion aı	nd TS	825													
13	Fire	syste	ems																
14	High	build	dings	fire sy	stem	equipn	nents												
								A.I 2. 3. Pro 4. Ya 5.	1. Teknik Tesisat Esasları Ders Notu, A. Avcı, M.Can ve A.B.Etemoğlu 2. Sıcak Sulu Kalorifer Tesisat, Prof.Dr. A. Kemal Dağsöz. 3. Doğalgaz, tanım, cihazlar, devreleri, hesabı, Prof.Dr.A.KemalDağsöz. 4. Termodinamik Isıtma, Soğutma, Havalandırma, Klima, Yalıtım, Doğalgaz Teknolojisi Dergisi. 5. İzolasyon Dünyası,Isı, Ses, Su, Yangın izolasyonu Dergisi.										
23	Asse	esme	nt																
TERM I	LEARI	NING	ACTI	VITIES	;		N	IUMBE	WE	EIGHT									
Midterr	m Exa	ım					1		30	30.00									
Activit	tes									Number Duration (hour) Total Load						Total V Load (h			
+beare	etical						4	l.	10	6. 00			3.00		42.00				
Practic	cals/La	abs								0			0.00			0.00			
Seas	BBY GAF	Ne pr	epera	tion						12			3.00			36.00			
Homev	works									0			0.00			0.00			
Propie ct	ts								10	0 .00			15.00		30.00				
Field S	Studies	S							(0			0.00		0.00				
Doutes	n exa	ms							_	1			10.00		10.00				
Others										2			10.00		20.00				
Final E										1			12.00			12.00			
Total V																150.00			
Total w																	5.00		
ECTS		t of th								4.00									
25	•		(CON	TRIE	UTIO	N O				OUTC		S TO I	PROC	SRAM	ME			
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
ÖK1	4	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0		
ÖK2			5	5	0	0		0		1	0		0						

25	QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK5	4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:							3 1	Medi	um	1	4 Higl	า	5 Very High				