	BASIC IN	STAL	LATION PROCESS						
1	Course Title:	BASIC II	NSTALLATION PROCESS						
2	Course Code:	GTTZ10	5						
3	Type of Course:	Compuls	sory						
4	Level of Course:	Short Cy	vcle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Öğr.Gör	. S.HAKAN GÜL						
15	Course Lecturers:	Öğr.Gör	S.Hakan GÜL						
16	Contact information of the Course Coordinator:	kursat@uludag.edu.tr, Uludağ Üniversitesi Orhangazi Meslek Yüksekokulu,0 224 573 98 62							
17	Website:								
18	Objective of the Course:	renewab	solar power which is one of the most important of the energy sources and obtaining detailed information in the working principles of systems that works by this power.						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	To understand the importance of solar energy and renewable energy resources in the location of						
		2	the fields of solar energy can be used to grasp the features						
		3	To grasp the process of the solar water heating systems and the other installations sytems that used solar power						
		4	Using the calculations methods relating with selection and dimensioning of solar water heating systems.						
		5	Knowing the regulations of mounting and montage methods of solar collector.						
		6	To grasp the air conditioning systems using absorbtion.						
		7	Knowing the other application fields of solar energy, cooling, drying, pure water, electricity generation						
		8	Describing the working principles of PV						
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						
1	Place of earth in Solar system, its diffrom sun, an explanation on how the come to the earth in accordance to the position of earth and atmospheric efficient the sunlight.	sunlight he							

2	Properti	es and	uses	of sol	ar ene	rgy											
3	Solar he						ctors.										
4	Descript fields of				ith flat	plate	their										
5	Flat plat absorbe			trans	parent	cover	and										
6	Planar o	collecto	ors, he	eat pip	es and	d insul	ation										
7	Classific	ation o	of sola	r wate	er heat	ing sy	stems										
8	Midterm	exam	/Cours	se rev	iew												
9	Open-ci	rcuit th	e natu	ıral ciı	culatio	n syst	tems										
10	closed-c	ircuit f	orced	circul	ation s	ystem	s										
11	Placeme inclination				e angl	e of											
12	solar-powered water heating system sizing calculation method used, equations and tables																
13	Other ap electricit water pr	y gene	eration														
14	Ultimate	applic	ations	of so	lar ene	ergy											
Activit			VIIIE C			I.N	OWIDE		Number Duration (hour					ŕ	Load (hour)		
	als/Labs						<u> </u>	-	0		0.00			0.00			
	ıdy and p	repera	ntion			О	1		99			2.00			28.00		
Homew									1			10.00)	_	10.00		
Pingle Et	gam					1		50	000			0.00			0.00		
Field St	tudies								0			0.00			0.00		
Olouteilo	nu texxa norts	Term (Year)	Learn	ing Act	tivities	to	50	50100 10				10.00			10.00	
Others	- / \								0			0.00		0.00			
Constrib	ution of I	-inal E	xam to	Suc	cess G	rade		50	50100 14.00					14.00			
Total W	Vork Load	t													90.00		
Metasw	renk eodad/	n 3 0Ehra	luatio	n Tec	hnique	s Use	d in th	е							3.00		
ECTS (Credit of			UAD	ТАБ	LE									5.00		
25	5 CONTRIBUTION OF LEA									OUTC		S TO I	PROG	SRAM	ME		
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7 0	PQ8	PQ9 0	l _	PQ11 0	PQ12 0		PQ14	PQ15 0	PQ16	

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

Contrib 1 very low ution Level:			2	2 low	3 Medium			4 High			5 Very High					
LO: Learning Objectives PQ: Program Qualifications																
ÖK8	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0