COMBUSTION TECHNOLOGY										
1	Course Title:	сомви	STION TECHNOLOGY							
2	Course Code:	GTTS10	6							
3	Type of Course:	Optional								
4	Level of Course:	Short Cy	cle							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	1.00								
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.Dr. KÜRŞAT ÜNLÜ								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	meuguroz@uludag.edu.tr 0 224 294 23 48 - 0 224 294 23 95 U.Ü.Teknik Bil.MYO Gaz ve Tesisat Tek. Prg.								
17	Website:									
18	Objective of the Course:	To know about fuels and combustion, how to sort out the combustion problems.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Student will be able to; Classify the fuels and learn specifications,							
		2	Learn basic reactions,							
		3	Calculate reaction products							
		4	Choose lighting system							
		5								
		6								
		7								
		8								
		9								
_		10								
21	Course Content:									
10.	Course Content:									
	Theoretical		Practice							
1	Presentation of course									

	E di								
2	Fuels; 2.1.Fuel classes 2.2.How to obtain 2.3.Specifications 2.4.Where tu use								
3	Analysis of fuels								
4	Air;								
	4.1.Specifications 4.2.Humid air 4.2.1.Define of oxygene 4.2.2.Exploration of moisture								
5	Specification of air and moisture mix; 5.1.Ignition temperature 5.2.Flammable limits 5.3.Flame temperature 5.4.Velocity of flame progress	Practice with bunsen burner							
6	Flame; 6.1.Existing 6.2.Types 6.3.Specifications 6.3.1.Failures 6.3.1.1.Back light	Е	Experiments with bunsen burner for flame failure						
Activit	es		Number	Duration (hour)	Total Work Load (hour)				
Theore	tical 7.2.Engines 7.3.Turbines		14	1.00	14.00				
Practica	als/Labs		14	2.00	28.00				
Se ß stu	கு <mark>ச்து செய்த்த</mark> ை and midterm exam		12	2.00	24.00				
Homew	vorks		1	6.00	6.00				
Project	9.3. Catalitic burning	Γ	1	10.00	10.00				
Field S			0	0.00	0.00				
Midtern	n exams	Γ	1	4.00	4.00				
Others			0	0.00	0.00				
Final E	reactions kams		1	4.00	4.00				
Total W	/ork Load				90.00				
Total w	ଦ୍ୱୋଷ୍ଟାଣ୍ଡମ କ୍ରମ necessary air amount and	Practice with metering devices on gas meteraging fan							
ECTS (Credit of the Course				3.00				
	10.2. Liquid fuels 10.3 .Gas fuels								
12	Burning efficiency and calculation of heat value of fuels	Practice in lab.							
13	2.Mid term exam (Assignment)								
14	14.1. Emission control and burning diagrams14.2. Choose of lighting system and affectingparameters for appliance efficiency	Emission reading with sensors							

22	Textbooks, References and/or Other Materials:								Ya ISI Int	Yanma Ders Notları, Prof Dr Atakan Avcı Yakıtlar ve yanma, Prof Dr Kazım Telli, Palme yayıncılık, ISBN 975 -7477 – 39 - 7 Introduction to Thermal Sciences, Frank Schmidt, Robert Henderson, Carl Wolgemuth ISBN 0 – 471 – 54939 - 8								
23	Asse	Assesment																
							NUMBE R	WE	WEIGHT									
						1	25	25.00										
Quiz							0	0.0	0.00									
							1	25	25.00									
Final Exam 1							1	50	50.00									
Total							3	10	100.00									
Contribution of Term (Year) Learning Activities Success Grade							s to	50	50.00									
Contribution of Final Exam to Success Grade							50	50.00										
Total								10	100.00									
Measurement and Evaluation Techniques Used in the Course							е											
24	EC	TS/	WO	RK L	OAD	TAB	LE											
25	;			CON	TRIE	BUTIC)N C			_	OUTO		S TO	PROC	GRAMI	ME		
	ı	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	
ÖK1	()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2	()	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	()	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	
LO: Learning Objectives PQ: Program Qualifications													1					
Contrib 1 very low 2 low ution Level:					3 1	Vled	ium	4 High			5 Very High							