	AIR P	OLLU	TION SCIENCE						
1	Course Title:	AIR POL	LUTION SCIENCE						
2	Course Code:	CEV401	7						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	English							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Prof. Dr.	YÜCEL TAŞDEMİR						
15	Course Lecturers:	Doç.Dr. S	S.Sıddık Cindoruk						
16	Contact information of the Course Coordinator:	E-posta: tasdemir@uludag.edu.tr Tel: 0 224 294 2105 Adres:Uludağ Üniversitesi, Mühendislik-Mimarlık Fakültesi, Çevre Mühendisliği Bölümü, 16059,Görükle /BURSA							
17	Website:								
18	Objective of the Course:	The main objectives of the course are to determine the air pollution sources; to explain the fate of the pollutants, relation with meteorological factors; to give information about stack design and Air Quality Protection Act.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	To have knowledge about characteristics of air pollutants, sources and formation processes						
		2	To have knowledge on fate, transport and reactions of air pollutants						
		3	To have skill on calculation of air pollutant concentrations due to different heights and distances originated from point, linear and area sources.						
		4	To have skill on design of stacks proper for air quality						
		5	To have knowledge about regulations and applications related to air pollution						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	urse Content:						
Week	Theoretical		Practice						
1	Introduction, Air Pollution System	_							

2	Air Po	ollut	ants (Sourc	es an	d Class	sificati	on)											
3	Air Po	ollut	ants (Chara	cteris	tics an	d Effe	cts)											
4	Ideal Gas Law and Other Gas Laws																		
5	Air Pollution Regulation																		
6	Stack	k De	sign																
7	Air Po	olluti	ion M	eteoro	logy-	Quiz 1													
8	Air Po	olluti	ion M	eteoro	logy														
9	Calcu	ulatio	on of	Plume	Rise														
10	Repe	atin	g cou	rses a	nd mi	dterm	exam												
11	Air Pollution and Dispersion Modelling																		
12	Area	and	Point	Sour	ces														
13	Fuels and Combustion Chemistry Quiz 2																		
14	Toxic	: Air	Pollu	tants-	Repo	rt prese	entatio	on											
22	Textbooks, References and/or Other Materials:									 Air pollution: its origin and control, Kenneth Wark, Cecil F. Warner, Wayne T. Davis, Menlo Park, Calif., Addison- Wesley, 1998 Hava Kirliliği ve Kontrolünün Esasları, Aysen Müezzinoğlu, DEÜ, 2000. Atmospheric chemistry and physics of air pollution, John H. Seinfeld, New York, Wiley, 1986. 									
23	Asse	sme	nt										_						
Activit	tivites									Numb	ber		Dura	ition (Total Work Load (hour)				
Theo re	oretical 2									5 00				2.00			28.00		
Practica	icals/Labs									0			0.00			0.00			
Siel ás E i	SEconand preperation 1									60160				2.00			28.00		
Homew	eworks									1				10.00					
Ecojects	sution of	of Te	erm (`	Year) l	earn	ing Act	ivities	to	40	40000				0.00			0.00		
Field St	tudies									0				0.00			0.00		
Autria	einvition of Final Exam to Success Grade										60 ₂ 00				7.00				
Others	ers										0			0.00			0.00		
FrieasEr	s ມີກອກອາງ and Evaluation Techniques Used in the										1				10.00				
Total W	al Work Load																		
Total w	a work load TABLE													3.00					
ECTS (S Credit of the Course									3.00									
25				CON	TRIB	UTIO	N OI	F LE. (ARN QUA	ling Lific		COME: NS	S TO I	PROC	GRAM	ME			
	P	'Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	3		0	0	0	0	0	0	0	0	0	0	0	0	0	3	0		
ÖK2	4	,	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ÖK3	4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ÖK4	4		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	4	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 low			3 Medium			4 High			5 Very High			