

Course Title-Course Code: ENV-505 ENVIRONMENTAL TECHNOLOGIES					Name of the Programme: ENVIRONMENTAL SCIENCES				
Semester	Teaching Methods						Credits		
	Lecture	Recite	Lab.	Project Res.	Other	Total	Credit	ECTS Credit	
2	42	21		40	85	188	3	7,5	
Language	Turkish								
Compulsory / Elective	Elective								
Prerequisites	None								
Course Contents	Pollutants and effects of human on environment, Air pollution control Technologies, Particle control with Cyclones, Filters, Electrostatic precipitators, wet purifiers, scrubbers, Incinerators, Control of Gases and Vapors, Water and Sediment pollution chemistry, coagulation, Conventional Clarification Designs, Oxidation, Disinfection, Ion Exchange, Membrane Technologies, Active carbon, Bioremediation, Magnetic Clarification Applications, Noise Pollution Measurement and Control Techniques, Environmentally Friendly Energy Technologies, Bioenergy, Biofuels								
Course Objectives	Giving information about the basic principles of environmental protection in the environmental technologies, formation of natural and industrial wastes, and their properties. Learning the water, air and soil pollution control and remediation technologies.								
Learning Outcomes and Competences	The lesson brings the information about air, water and soil pollution treatment methods. It provides the concepts of different treatment methods and new technologies to be learned.								
Textbook and /or References	<ol style="list-style-type: none"> 1. Krishna, M., Air Pollution and Control, Kaushal and Co.,Kakinada, India 2. Mirali S. Alosman, Çevre Teknolojisi, Seç yayın dağıtım, İstanbul, 2002 3. Eckenfelder, W.W., Industrial Water Pollution Control, McGraw Hill 4. R.L.Droste, "Theory and Practice of Water and Wastewater Treatment", Willey. 5. W.W.Nazaroff, L.Alvarez-Cohen, "Environmental Engineering Science", Willey. 6. İ.Mirsal, "Soil Pollution;Origin,Monitoring And Remediation" Springer Verlag. 								
Assessment Criteria							If any,mark As (X)	Percent (%)	
	<i>Midterm Exams</i>						X	40	
	Quizzes								
	Homeworks								
	Projects								
	Term Paper						X	10	
	Laboratory Work								
	Final Exam						X	40	
Instructors	Ass. Prof. Meltem YILMAZ meltemyilmaz@gazi.edu.tr								
Week	Subject								
1	Human effects on environment and the pollutants								
2	Air pollution control technologies, Particle control by filters,								
3	Electrostatic precipitators, wet purifiers, Scrubbers,								
4	Incinerators, Control of Gases and Vapors								

5	Water and Sediment pollution chemistry
6	Coagulation
7	Conventional Clarification Designs,
8	Midterm I
9	Oxidation, Disinfection, Ion Exchange,
10	Membrane Technologies, Active carbon
11	Bioremediation, Magnetic Clarification Applications,
12	Noise Pollution Measurement and Control Techniques,
13	Environmentally Friendly Energy Technologies, Bioenergy, Biofuels
14	Midterm II