

Course Title-Course Code: ÇEV-502 ENVIRONMENTAL POLLUTION					Name of the Programme: ENVIRONMENTAL SCIENCES				
Semester	Teaching Methods							Credits	
	Lecture	Recite	Lab.	Project Res.	TermPaper	Other	Total	Credit	ECTS Credit
1-2	42				100	46	188	3	7,5
Language	Turkish								
Compulsory / Elective	Elective								
Prerequisites	None								
Course Contents	Basic knowledge on environment contamination, classification of contaminants, main contaminants that cause pollution, air pollutants (types and sources), global and atmospheric warming, control technics of air pollution, natural and antropogenic effects on water quality, water pollutants (the facts that cause pollution, eutrofication, to avoid from water polluters) soil pollutants (the facts that cause pollution, to avoid from soil polluters), Industry, domestic and agriculture oriented materials that cause pollution and prevention methods, radioactive pollution, global environmental problems								
Course Objectives	Receiving knowledge about the materials that cause pollution, formation of basic experience for problem solution about water, soil and air pollution. Maintenance of knowledge transfer between multi-disciplinary sciences.								
Learning Outcomes and Competences	Receives input concerning territorial and global evaluation of environmental pollutants and problems. Constitutes input in problem solution for effective use of resources by evaluation of basic engineering knowledge.								
Textbook and /or References	<p>Pierce, J. J., Weiner, R. F., Vesilind, P. A. (1998) Environmental Pollution and Control (Fourth Edition) Elsevier Enc. 392 p.</p> <p>APHA, (1995) Standard methods for the examination of water and wastewater. 19th Edition Washington. APHA, USA. 1134 p.</p> <p>Holden, W. S. (1970) Water Treatment and Examination. London. UK. 513 p.</p> <p>Elsom, D. M. (1987) Atmospheric Pollution. Basil Blackwell Ltd., Oxford, UK.</p> <p>Smith, W. H. (1990). Air pollution and Forests. Interaction between Air contaminants and Forest Ecosystem. Springer Verlag. New york . USA. 618 p.</p> <p>Tarradellas, J. Bitton, G. Rossel, D. (1997) Soil Ecotoxicology. Lewis Publishers. CRC Press. USA. 386 p.</p> <p>Haktanır, K. Arcaç, S. (1998) Çevre Kirliliği, A.Ü.Z.F. Yayın No: 1503, Ders kitabı: 457 Uslu, O.ve Türkman, A. (1987) Su Kirliliği Ve Kontrolü. 364 p. İzmir.</p> <p>Anonim, (1999) Türkiye'nin Çevre Sorunları 99, Türkiye Çevre Vakfı. Yayın No:131, Ankara. 464 s.</p>								
Assessment Criteria							If any,mark As (X)	Percent (%)	
	Midterm Exams						X	30	
	Quizzes								
	Homeworks								
	Projects								
	Term Paper						X	20	

	Laboratory Work		
	Other	X	10
	Final Exam	X	40
Instructors	Ass. Prof. MeltemYilmaz		
Week	Subject		
1	Basic knowledge about environment pollution, classification of environment pollution		
2	Main contaminants that cause pollution		
3	Air pollutants, types and sources		
4	Control technics of air pollution,sera gases, global and atmospheric warming		
5	Natural and antropogenic effects on water quality, water quality parameters and control		
6	Water pollutants, the facts that cause water pollution, eutrofication, to avoid from water polluters		
7	Soil pollutants, the facts that cause soil pollution, to avoid from soil polluters		
8	Midterm I		
9	Industry oriented materials that cause pollution and prevention methods		
10	Domestic oriented materials that cause pollution and prevention methods		
11	Agriculture oriented materials that cause pollution and prevention methods		
12	Radioactive pollution and prevention methods		
13	Global environmental problems		
14	Midterm II		