

ENVIRONMENTAL POLLUTION AND ECOLOGY

1	Course Title:	ENVIRONMENTAL POLLUTION AND ECOLOGY
2	Course Code:	CEV2101
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
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:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. AYŞE ELMACI
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Mühendislik Fakültesi Çevre Mühendisliği Bölümü Tel: 0224 2942107 e-mail: aelmaci@uludag.edu.tr
17	Website:	
18	Objective of the Course:	To comprehend the main principles of ecology and to emphasize the effects of environmental problems threatened the ecological balance of natural life.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To acquire sufficient information about the development of the world and with the formation of species.
	2	To identify some of the basic theories and concepts used in ecology based.
	3	To get information about the effects of environmental factors on living and non-living environment.
	4	To learn ecosystems and its characteristic.
	5	To examine the ecological problems of human being.
	6	To learn the environmental pollution factors and their effects on environment and living things, to be able to examine related research especially in our city and country.
	7	To learn how to think about the environmental problems as an environmental engineer in the light of examined related studies.
	8	To learn how to behave without disturbing the ecological balance with the consciousness of environmental protection, thanks to the information he know.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	The content, goals, objectives and syllabus of the course, Introduction, definition of ecology and environmental science			
2	The chronological change of the earth and their effects on species existence, The basic theories and principles in ecology Abiotic factors and their effects on organisms, 1) Climate abiotic factors a) Climate b) Ecological aspects of atmosphere and solar radiation c) Temperature and ecological impact d) Rainfall and humidity e) Light and ecological impact			
3	f) Secondary climatic factors (wind, atmospheric pressure, gravity and ecological effects) 2) Nonclimate abiotic factors Hydrographic Factors - Physical, chemical properties of water and ecological impacts			
4	3)Edaphic factors; -Soil as ecological factor -Fires as ecological factor -Other edaphic factors Biotic Factors 1) Food, Nutrition and its Effect on Organisms			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	Quiz	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation	Community and its characteristics Ecosystem and its characteristics	14	1.00	14.00
Homeworks		1	13.00	13.00
Projects	- Functional properties of ecosystems; - Energy flow of ecosystems	0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm Exam	The major ecosystems of the world and their distributions	1	10.00	10.00
Others		1	5.00	5.00
Final Exams	Freshwater ecosystems Marine ecosystems	1	20.00	20.00
Total Work Load				100.00
Total work load/ 30 hr				3.00
ECTS Credit of the Course				3.00
	- Population growth and urbanization - Energy problem - Agricultural problems - Food problem Students presentation			
10	Midterm exam			
11	Environmental pollution: - Air pollution and its effects on environment - Water pollution and its effects on environment Students presentation			
12	-Soil pollution and its effects on environment -Radioactive pollution and its effects on environment - Noise and its environmental effects Students presentation			

13	The protection of nature; - Ecological Balance - Pollution Prevention - Biodiversity Conservation Students presentation		
14	Environmental protection and the new concepts in the organization - Environmental Law - Environment Policy - Environmental Economics - Environmental Planning - Environmental Health Students presentation		
22	Textbooks, References and/or Other Materials:	1. A. Kocataş, 2012. Ekoloji ve Çevre Biyolojisi, Dora, ISBN: 978-605-4485-42-0, 597 s., Bursa.	
23	Assesment		
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT
Midterm Exam		1	25.00
Quiz		1	5.00
Home work-project		1	10.00
Final Exam		1	60.00
Total		4	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00	
Contribution of Final Exam to Success Grade		60.00	
Total		100.00	
Measurement and Evaluation Techniques Used in the Course			
24	ECTS / WORK LOAD TABLE		

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	0	0	0	0	0	3	0	0	0	4	0	0	0	0	0
ÖK2	5	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0
ÖK3	5	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0
ÖK4	5	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0
ÖK5	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0
ÖK6	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0
ÖK7	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0
ÖK8	0	0	0	0	0	0	5	0	0	0	4	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							