

ENVIRONMENTAL BIOLOGY

1	Course Title:	ENVIRONMENTAL BIOLOGY
2	Course Code:	BYL0502
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	7
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. GÜRCAN GÜLERYÜZ
15	Course Lecturers:	Prof. Dr. Gürcan GÜLERYÜZ
16	Contact information of the Course Coordinator:	<p>Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: gurcan@uludag.edu.tr Telefon: 0 224 294 17 88</p> <p>Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: gurcan@uludag.edu.tr Phone: 0 224 294 17 88</p>
17	Website:	
18	Objective of the Course:	This course introduces environmental issues from a biological point of view. This goal explains with the relationships between human beings and environment, the exposed on environment of human, the influence of human activity on resource use, the effective mechanisms of the main pollutants such as pesticides and surface active agents, the major nutrient cycles such as C,N,S and human effects on these cycles, the biological accumulation and effects, the usage of bio-systems across pollutants in environment.
19	Contribution of the Course to Professional Development:	Contribution of the biology / ecology discipline in the determination, prevention and elimination of environmental problems.
20	Learning Outcomes:	
	1	Explains the environment and environmental problems.
	2	Relating the human and environment.
	3	Explains the human effects on nature.
	4	Explains the biogeochemical cycles and effects of human on these cycles.
	5	Explains the environmental pollution and role of human on environmental pollution.
	6	Explains the bioaccumulation.
	7	Explains the effects of erosion on environment.
	8	Explains the methods relating to ecological restoration.
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21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	Intoduction, Concept of the Environmental Biology.Environment term and Environmental Problems.			
2	The relationships between human and environment.			
3	The exposed on environment of human: Landscape, Soil, Aquatic environment, Vegetation, Anima lSpecies and their distribution			
4	The exposed on environment of human: Landscape, Soil, Aquatic environment, Vegetation, Animal Species and their distribution			
5	Biogeochemical Cycles; Carbon Cycle and Global Climatic Change; Oxygen cycle and Ozone			
6	Biogeochemical Cycles; Nitrogen Cycle and Forest damages (Acid Rainfalls)			
7	Repeating courses and midterm exam			
8	Biogeochemical Cycles; Phosphorus Cycle and Eutrophication, Sulfur Cycle			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical				
11	Atmospheric gases, Oil pollution)	14	3.00	42.00
Environmental Pollution: Physical Pollution				
Practicals/Labs		0	0.00	0.00
Self study and preparation				
	Epidemic agent), Radioactive Pollution, Thermal Pollution	2	12.00	24.00
Homeworks		2	5.00	10.00
Projects				
13	The usage of bio-svstems across pollutants in	1	8.00	8.00
Field Studies		0	0.00	0.00
14	Restoration ecology, Phytoremediation	1	10.00	10.00
Midterm exams				
Others		0	0.00	0.00
Final Exam				
Materials:		Türkiye'nin Çevre sorunları, Ç. K. Köksal, 1992, Ankara, 140 s. Türkiye'nin Çevre sorunları, Ç. K. Köksal, 1992, Ankara, 140 s.	14.00	14.00
Total Work Load				118.00
Total work load/ 30 hr		İzmir, 1992		5.00
ECTS Credit of the Course				5.00
		Air Pollution and Forests, interaction between air contaminants and forest ecosystems, Smith, WH., Second Edition, Springer-Verlag, 1990, New York Canlılar ve Çevre, Öztürk MA ve Türkan İ. E.Ü. Ofsetbasımevi, Bornova, İzmir, 1989 Çevre Kirliliği ve Ekolojik Etkileri, AkmanY., Düzenli A ve Geven F. Ankara, 1996 Ekoloji'nin Temel İlkeleri. Çeviri Editörü: K. ISIK. Palme Yayıncılık, Ankara, ss: 598 + XXII. (Çevirisi yapılan original kitap: E.P. ODUM and G.W. BARRETT. 2005. Fundamentals of Ecology, Thomson Learning Brooks/Cole, Belmont, CA, USA, 624 pp).		
23	Assesment			
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT	

Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	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	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.	

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	0	3	0	0	3	0	1	0	0	0	0	0	0	0	0	0
ÖK2	0	3	0	0	3	0	1	0	0	0	0	0	0	0	0	0
ÖK3	0	3	0	0	3	0	1	0	0	0	0	0	0	0	0	0
ÖK4	0	3	0	0	3	0	1	0	0	0	0	0	0	0	0	0
ÖK5	0	3	0	0	3	0	1	0	0	0	0	0	0	0	0	0
ÖK6	0	3	0	0	3	0	1	0	0	0	0	0	0	0	0	0
ÖK7	0	3	0	0	3	0	1	0	0	0	0	0	0	0	0	0
ÖK8	0	3	0	0	3	0	1	0	0	0	0	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							