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:	0	
6	Semester:	0	
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:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. GÜRCAN GÜLERYÜZ	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Görükle kampusü, 16059 Bursa 0224 2941799, e-posta: gurcan@uludag.edu.tr	
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:		
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.
		9	
		10	
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	
9	Biological Accumulation	
10	Environmental Pollution; Chemical (Heavy Metals, Pesticides, Synthetic Detergents, Atmospheric gases, Oil pollution)	
11	Environmental Pollution; Physical Pollution,	
13	The usage of bio-systems across pollutants in	
14	Restoration ecology, Phytoremediation	
15	Materials:	Türkiye'nin Çevre sorunları. Kollektif Çalışma. Türkiye İzmir, 1992 Air Pollution and Forests: interaction between air Canlılar ve Çevre, Öztürk MA veTürkan İ. E.Ü. 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	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self-study and preperation	2	10.00	20.00
Homeworks	0	0.00	0.00
Projects	1	15.00	15.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	2	14.00	28.00
Final Exams	1	25.00	25.00
Total Work Load			150.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			3.00

TERM LEARNING ACTIVITIES	NUMBER	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		

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	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	2	0	2	2	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**				