	ENVIRONMENTAL BIOLOGY								
1	Course Title:	ENVIRO	NMENTAL BIOLOGY						
2	Course Code:	BYL0502	2						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	cle						
5	Year of Study:	3							
6	Semester:	6							
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 f	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:	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.						
		9							
	I	10							
21	Course Content:								
10.		Co	ourse Content:						
Week	Theoretical Practice								

1	Intoduction, Concept of the Environme Biology. Environment term and Enviror Problems.							
2	The relationships between human and environment.	d						
3	The exposed on environment of huma Landscape, Soil, Aquatic environmen Vegetation, Anima ISpecies and their distribution							
4	The exposed on environment of huma Landscape, Soil, Aquatic environmen Vegetation, Animal Species and their distribution							
5	Biogeochemical Cycles; Carbon Cycle Global Climatic Change; Oxygen cycle Ozone							
6	Biogeochemical Cycles; Nitrogen Cycleorest damages (Acid Rainfalls)	le and						
7	Repeating courses and midterm exam	1						
8	Biogeochemical Cycles; Phosphorus (and Eutrophication, Sulfur Cycle	Cycle						
9	Biological Accumulation							
10	Environmental Pollution; Chemical (He Metals, Pesticides, Synthetic Deterger Atmospheric gases, Oil pollution)							
11	Environmental Pollution; Physical Poll Biological pollution (allergic pollens, sp Epidemic agent), Radioactive Pollution Thermal Pollution	oores,						
12	Erosion Ecology							
13	The usage of bio-systems across polluenvironment.	utants in						
14	Restoration ecology, Phytoremediation	n						
22	Textbooks, References and/or Other		Çevre Biyolojisi ders notları, GÜLERYÜZ G					
	Materials:		Türkiye'nin Çevre sorunları, KollektifÇ alışma, Türkiye çevre SorunlarıVakfı, 1991 Ankara Ekoloji, ÇevreBiyolojisi, KOCATAŞ A., EgeÜn. Matbaası, İzmir, 1992 Elements of Ecology, Smith RL., Harper Collins Publ., Third Ed. NY 1992 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 veTürkan 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 origina kitap: E.P. ODUM and G.W. BARRETT. 2005. Fundamentals of Ecology, Thomson Learning Brooks/Cole, Belmont, CA, USA, 624 pp).					
23	Assesment							
TERM L		NUMBE R	WEIGHT					
Midterm Exam 1			40.00					
Quiz 0			0.00					
Home	work-project (0	0.00					
Final Exam 1		1	60.00					

Total	2	100.00					
Contribution of Term (Year) Learning Activit Success Grade	ies to	40.00					
Contribution of Final Exam to Success Grad	е	60.00					
Total		100.00					
Measurement and Evaluation Techniques U Course		Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.					
24 ECTS / WORK LOAD TABLE							

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	14	4.00	56.00
Homeworks	2	10.00	20.00
Projects	1	8.00	8.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	14.00	14.00
Total Work Load			160.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	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																
Contrib 1 very low 2 low ution Level:			3 Medium			4 High			5 Very High							