ECOLOGY

1	Course Title:	ECOLOGY	
2	Course Code:	ORMZ109	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	1	
6	Semester:	1	
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. Ruziye Daşkın	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Doç. Dr. Ruziye DAŞKIN E-mail:ruziyeg@uludag.edu.tr Telefon: +90 (224) 2941878 Adres: Uludağ Üniversitesi, Fen – Edebiyat Fakültesi, Biyoloji Bölümü, Görükle Kampüsü, 16059 Nilüfer/Bursa.	
17	Website:		
18	Objective of the Course:	The purpose of this course, students learn the basic concepts of ecology, activity areas of ecology, biotic and abiotic factors affecting the spread of organisms, aquatic and terrestrial ecosystems, life cycles, population growth and population growth types, inter-species relationships, community structure, biodiversity and communities, energy flow in ecosystems.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To learn basic ecological concepts
		2	To understand the roles of biotic and abiotic factors on the distribution and size of population.
		3	To establish the link between environmental health and loops in Aquatic and terrestrial biomes.
		4	Ability to adapt to solution of some problems in the current life issues of Ecology.
		5	To understand the effects of interspecies interactions on biodiversity.
		6	To relate the effects of pollutants and biogeochemical cycles in ecosystems over the globe in today and in the future.
		7	To establish relationship between different applications in general biology, plant physiology and statistical issues, and ecological issues.
		8	
		9	
		10	
21	Course Content:		

	Course Content:	
Week	Theoretical	Practice
1	Living Associations Biosphere: Biosphere, biotope, habitat, ecological niche, the system - the ecosystem concept, relationships between elements in the ecosystem, biotic and abiotic environmental factors, Tolerance Act, the classification of organisms according to ecological tolerances.	
2	Terrestrial Ecology: Abiotic Features of Terrestrial Environment : Rainfall and temperature, the importance and the worldwide distribution of climate variations.	
3	Light: Light quality, intensity, the effects of light quality on morphological changes in plants, and the exposure time, grouping of plants in terms of day-length requirements and light requirements, the physiological effects of light.	
4	Temperature: Factors affecting the temperature, distribution of temperature in the earth, Thermoperiodism, stratification, vernalization. Morphological, physiological and chemical factors in the plants exposure to the extreme temperatures,	
5	Characteristics of Terrestrial Biotic Environment: energy flow in producers, consumers, and parsers	
7	Reactions between organisms. Non-contact inter-species relationships	
9	According to Raunkiaer plant Phanerophytes, Kamefitler, hemicryptophyte, and Terofitler	
10	The main terrestrial Biomes and properties.	
14	Environmental protection: Ways of using balanced and recovery of natural resources.	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	14.00	14.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			104.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

22	Textbooks, References and/or Other Materials:	Prof. Sabri Gokmen. General Ecology, Nobel Publishing, Ankara, 2007.
23	Assesment	

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	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	4	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	3	4	0	5	0	0	0	2	0	0	0	0	0	0	0	0
ÖK5	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	4	5	0	0	0	0	0	0	0	0
ÖK7	5	4	3	0	0	0	0	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**