LICHEN ECOLOGY										
1	Course Title:	LICHEN ECOLOGY								
2	Course Code:	BIO6106								
3	Type of Course:	Optional								
4	Level of Course:	Third Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	6.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	There is no prerequisite for this course.								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. ŞABAN GÜVENÇ								
15	Course Lecturers:	Prof.Dr. Şule ÖZTÜRK								
16	Contact information of the Course Coordinator:	Prof.Dr. Şaban GÜVENÇ E-mail:saban@uludag.edu.tr Telefon: +90 (224) 2941793 Adres: Uludağ Üniversitesi, Fen – Edebiyat Fakültesi, Biyoloji Bölümü, Görükle Kampüsü, 16059 Nilüfer/Bursa.								
17	Website:									
18	Objective of the Course:	Aim of this course, the ecological point of students are evaluate the distribution and roles in the ecosystem of lichens and determine the effects on lichen distribution of global warming.								
19	Contribution of the Course to Professional Development:	Contributes to the student's professional development by evaluating lichens ecologically, their distribution on the earth and their roles in the ecosystem, and the effects of global warming on lichens.								
20	Learning Outcomes:									
		1	To understand and apply the main concepts, principles and theories of lichen ecology.							
		2	To learn analyze lichenobiota and lichen communities, regularities of species distribution and conservation.							
			Knowledge on the ecological importance and contribution to the ecosystem of lichens.							
			To analyze the effects of environmental changes on licher comminity.							
			Knowledge on how to use the new technologies and methods in lichen ecology.							
			To acquire the skill of reading, understanding and evaluating articles in related fields with the help of terminology and information learned from the study.							
			7 To gain the skill to apply their thesis studies to the knowledge, experience and discipline gained from this course.							
		8	To be able to adapt information acquired on life in marine and other aquatic environments to other disciplines and to work and take part in cooperative projects.							
		9								
		10								

21	Course Content:										
	Course Content:										
Week	Theoretical										
1	Lichen biodiversity, ecological role of ecological groups and ecological characteristic of lichens.	lichens,									
2	Environmental modification in lichen t morfology, colour and prinosity, anato chemistry.										
3	Colonization, growth, succession and competition.	l									
4	Lichens of Boreal coniferous zone: or Boreal lichen flora, distributional type boreal lichens, ecoclimatic differentia edafic – topographic differentiation.	s of									
5	Methods used to study lichen commu	inities.									
6	Types of lichen communities: Cortico lignicolous communities.	lous and									
7	Types of lichen communities: Saxicol Terricolous, and Foliicolous commun										
8	Repeating courses and midterm exar	n									
9	Lichens of cold deserts: Some ecolog aspects of polar cold desert lichens, distribution patterns of Arctic and Ant lichens, evolution of distribution patter	artic									
Activit	es		Number		Duration (hour)	Total Work Load (hour)					
	response to aridity, factors controlling		14		3.00	42.00					
	als/Labs		0		0.00	0.00					
Self stu	dyoadtapteperation		14		4.00	56.00					
Homew			0		0.00	0.00					
Project	perior of lichens on trees.	חו	0		0.00	0.00					
Field St	tudies		3		5.00	15.00					
Midtern	open and forest situations.	-	1		25.00	25.00					
Others			0		0.00	0.00					
Final E	xams		1		35.00	35.00					
Total W	/ork Load			-,		198.00					
	Aksesment hr					5.77					
ECTS (Credit of the Course	R				6.00					
Midtern	n Exam	30.00									
Quiz		0.00									
	work-project	20.00									
Final E		2 1	50.00								
Total		100.00									
Contrib Succes	ution of Term (Year) Learning Activitie s Grade	es to	50.00								
Contrib	ution of Final Exam to Success Grade)	50.00								
Total			100.00								
Measur Course	rement and Evaluation Techniques Us	ed in the	The system of	of relative e	valuation is applied						

24 E0	CTS/	TS / WORK LOAD TABLE														
25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	4	0	0	0	0	0	3	0	5	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	3	0	5	3	0	0	0	0	0
ÖK3	0	4	0	0	0	0	0	0	0	5	0	0	0	0	0	0
ÖK4	0	0	0	4	4	0	0	0	4	5	0	0	0	0	0	0
ÖK5	0	0	0	4	4	0	0	0	4	5	0	0	0	0	0	0
ÖK6	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	4	5	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	4	5	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 low		3 Medium			4 High			5 Very High				