FRESHWATER ECOLOGY										
1	Course Title:	FRESHWATER ECOLOGY								
2	Course Code:	BYL4111	1							
3	Type of Course:	Optional	I							
4	Level of Course:	First Cyc	le							
5	Year of Study:	4								
6	Semester:	7								
7	ECTS Credits Allocated:	4.00								
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:	Doç. Dr. NURHAYAT DALKIRAN								
15	Course Lecturers:	Yrd. Doç	. Dr. Nurhayat DALKIRAN							
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: dalkiran@uludag.edu.tr Telefon: 0 224 294 1866 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: dalkiran@uludag.edu.tr Phone: 0 224 294 1866								
17	Website:									
18	Objective of the Course:	The aim of the course is to provide the students with an understanding of the applied and theoretical aspects of freshwater systems. The goals are to teach the types of freshwater organisms and freshwater ecosystems, and community structure in freshwater ecosystems is affected by predation, competition and mutualism								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Describes the basic concepts of freshwater ecology.							
		2	Obtains information about freshwater ecosystems and extreme freshwater habitat types.							
		3	Understand the importance of the population dynamics, food chain and adaptations on aquatic ecosystems.							
		4	Obtains information about the effects of eutrophication on freshwater ecosystems and diversity of freshwater organisms							
		5	Obtains information about human impact problems on freshwater ecosystems and their solutions.							
		6	Takes responsibility for the protection of freshwater ecosystems.							
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		8								
		9								

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21	Course Content:											
	Course Content:											
Week	Theoretical		Practice									
1	Introduction to freshwater ecology; classification of freshwater ecosyster general approaches to freshwater ecosystems, the ecosystems of lakes reservoirs, rivers and streams, wetlar ground waters,	ns, s and nds and										
2	Physical and Chemical factors and th effects on the ecology of freshwater organisms; aquatic chemistry control nutrient cycling: redox and oxygen, C Nitrogen, Sulfur, Phosphorus and oth nutrients.	neir ling Carbon, ner										
3	Types of freshwater organisms; microorganisms, plants and animals.											
4	Biodiversity of freshwaters; temporal spatial factors influencing evolution of freshwater organisms, local distributi species invasions of nonnative speci- extinction	and f on of es,										
5	Behavior and interactions among microorganisms and invertebrates; fe and habitat adaptations on freshwate	eding er										
Activit	es		Number	Duration (hour)	Total Work Load (hour)							
Th 	ticapletition of subjects		14	2.00	28.00							
Practica	als/Labs		0	0.00	0.00							
Self stu	dread version on aquatic organism	ns anu	14	3.00	42.00							
Homew	vorks		1	10.00	10.00							
Project	adaptations to extremes, hot springs,	, cold	0	0.00	0.00							
Field S	tudies		0	0.00	0.00							
Mi d0 ern	Tereaexamples of some special fresh	water	1	15.00	15.00							
Others			0	0.00	0.00							
Final E	effects of toxic chemicals, acid rains,	ystems,	1	20.00	20.00							
Total W	/ork Load				130.00							
To ta l w	whaad/water regime, results of char	nges in			3.83							
ECTS (Credit of the Course				4.00							
14	The effects of Climate change on free ecosystems	shwater										
22	Textbooks, References and/or Other Materials:		Dodds, W.K. 2002. Freshwater Ecology: Concepts and Environmental Applications. Academic Press.									
			Closs, G. B. Downes and A. Boulton (2006). Freshwater Ecology: A Scientific Introduction. Blackwell Publishing, 221p.									
23	Assesment											
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT									
Midtern	n Exam	1	30.00									
Quiz		0	0.00									

Home work-project						1		10	10.00								
Final Exam							60	60.00									
Total 3							3	10	100.00								
Contribution of Term (Year) Learning Activities to Success Grade							40	40.00									
Contribution of Final Exam to Success Grade							60	60.00									
Total							10	100.00									
Measurement and Evaluation Techniques Used in the Course						ne											
24 ECTS / WORK LOAD TABLE																	
25	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	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	
ÖK2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	
ÖK3	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	
ÖK4	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	
ÖK5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	
ÖK6	0	0	3	0	0	5	0	0	0	2	2	4	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib1 very low2 lowutionLevel:		2 Iow		3 Medium		4 High		5 Very High									