

# LIMNOLOGY

1	Course Title:	LIMNOLOGY
2	Course Code:	BYL3008
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	6
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:	Doç. Dr. NURHAYAT DALKIRAN
15	Course Lecturers:	Dr. öğr. üyesi Didem KARACAOĞLU
16	Contact information of the Course Coordinator:	<p>Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü  Görükle Kampüsü, Nilüfer/BURSA 16059  e-posta: dalkiran@uludag.edu.tr  Telefon: 0 224 294 17 86</p> <p>Uludag University Faculty of Arts and Science Department of Biology  Gorukle Campus, Nilufer/BURSA 16059  e-mail: sdere@uludag.edu.tr  Phone: 0 224 294 18 86</p>
17	Website:	
18	Objective of the Course:	The aim of the course is to teach importance and working area of Limnology, to recognize physical and chemical structure of aquatic ecosystems and their importance, to teach the features of lentic and lotic systems and to understand their differences, to teach different aquatic organisms, to teach relationships among aquatic organisms and physicochemical variables of the water, to teach environmental effects of corrupting the physical, chemical and biological balance in the aquatic ecosystem, to teach solving the ecological problems.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Explains the meaning and significance of limnology.
	2	Explains the relationship between people and aquatic ecosystem.
	3	Defines some properties of water which the living lives in.
	4	Explains lakes's physical, chemical and ecologic properties.
	5	Explains stream's physical, chemical and ecologic properties
	6	Explains physical, biologic and chemical properties of water, the organisms live in water, and relationship among them.
	7	Explains aquatic ecosystem as a whole.

		8	Explains food chain and energy flow in aquatic ecosystem, biomass and productivity concepts.		
		9	Evaluates limnology methods and tools.		
		10	Analyzes causes of organic and inorganic environmental contamination which may be occurs in aquatic ecosystem, contamination's effects on the living.		
21	Course Content:				
	Course Content:				
Week	Theoretical		Practice		
1	Entrance; the history of limnology				
2	Some properties of water				
3	Some properties of water				
4	Classification of inland-water; Lakes's physical properties.				
5	Classification of inland-water; Lake water's chemical properties.				
6	Classification of inland-water; ecological areas in lakes.				
7	Classification of inland-water; streams (lotic systems).				
8	Streams ( lotic systems); physicochemical variables of streams.				
9	Classification of the freshwater organisms;				
Activites			Number	Duration (hour)	Total Work Load (hour)
Theoretical					
Aquatic animals.			14	2.00	28.00
Practicals/Labs			0	0.00	0.00
Self study and preparation					
13	Field study: limnology methods and tools.		3	6.00	18.00
Homeworks			0	0.00	0.00
Projects			0	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams			1	19.00	19.00
Others			0	0.00	0.00
Final Exams			1	25.00	25.00
Total Work Load					90.00
Total work load/ 30 hr					3.00
ECTS Credit of the Course					3.00
			Study of Fresh-Water Biology, McGraw-Hill Inc., USA, 108pp. Willoughby L. G. (1980). Freshwater Biology, 167pp. Williams G. (1987) Techniques and Fieldwork in Ecology, Harper Collins publ., 156pp.		
23	Assesment				
TERM LEARNING ACTIVITIES		NUMBE R	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		

<b>24</b>	<b>ECTS / WORK LOAD TABLE</b>
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<b>25</b>	<b>CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS</b>															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	2	2	3	0	3	2	0	0	0	0
ÖK2	2	0	2	2	0	4	2	3	3	0	3	2	0	0	0	0
ÖK3	2	0	2	3	0	3	3	3	3	0	3	2	0	0	0	0
ÖK4	2	0	3	4	0	3	3	2	3	3	3	2	0	0	0	0
ÖK5	2	0	3	4	0	4	4	3	3	3	3	2	0	0	0	0
ÖK6	4	0	3	4	0	5	4	3	3	3	3	2	0	0	0	0
ÖK7	4	0	4	3	0	5	3	3	3	2	3	2	0	0	0	0
ÖK8	3	0	4	3	0	5	3	4	3	2	3	2	0	0	0	0
ÖK9	2	0	2	3	0	3	5	3	3	5	4	2	0	0	0	0
ÖK10	2	0	5	3	0	5	4	3	3	4	3	2	0	0	0	0
<b>LO: Learning Objectives    PQ: Program Qualifications</b>																
<b>Contribution Level:</b>	<b>1 very low</b>			<b>2 low</b>			<b>3 Medium</b>			<b>4 High</b>			<b>5 Very High</b>			