

PLANKTOLOGY

1	Course Title:	PLANKTOLOGY
2	Course Code:	BYL4117
3	Type of Course:	Optional
4	Level of Course:	First Cycle
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:	Dr. Öğr. Üyesi DİDEM KARACAOĞLU
15	Course Lecturers:	---
16	Contact information of the Course Coordinator:	Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Görükle Kampüsü, 16059 Nilüfer/Bursa 0.224.2941867/e-posta: didemk@uludag.edu.tr
17	Website:	
18	Objective of the Course:	The aim of the course is to provide the students with an understanding of the general aspects of plankton and to introduce methods of the examination of plankton, to teach planktonic organisms and their ecology, plankton mechanisms and plankton inter-relationships.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Explains the importance of plankton which constitute an important part of aquatic environments
	2	Explains special adaptations to planktonic existence
	3	Defines spatial and temporal changes in plankton populations
	4	Explains the importance of plankton food chain
	5	Identify organism groups in plankton
	6	Establish relationships between ecological parameters and structure of plankton populations
	7	Describes the methods of sampling and analysis of plankton
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Introduction to plankton, historical aspects of plankton study, the interests of planktology	

2	Plankton habitats, aquatic ecosystems and their ecological zones, pelagic zone communities			
3	Special adaptations to planktonic existence (effect of physico-chemical environment, structural features)			
4	Classifying to planktonic organisms (according to biological properties, size, shape, and habitats of plankton) Bacterioplankton, phytoplankton, zooplankton, ichthyoplankton			
5	The structure and dynamics of plankton populations, general characteristics and distribution			
6	Phytoplankton Zooplankton Interactions			
7	Time-dependent changes in plankton populations, diurnal and seasonal changes in phytoplankton and zooplankton			
8	Brief review of the issues			
9	Environmental factors affecting distribution of plankton populations			
10	Feeding in the planktonic organisms, the importance of plankton in the food chain.			
11	Phytoplanktonic organisms and their characteristics			
Activites		Number	Duration (hour)	Total Work Load (hour)
14	Plankton studies in Turkey	14	2.00	28.00
Theoretical				
Practicals/Labs		0	0.00	0.00
Self study and preperation		14	3.00	42.00
Homeworks		1	10.00	10.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		1	15.00	15.00
Others		0	0.00	0.00
23	Assesment	1	20.00	20.00
Final Exam				
Total Work Load				130.00
Total work load/ 30 hr				3.83
Midterm Exam		1	30.00	
ECTS Credit of the Course				4.00
Home work-project		1	10.00	
Final Exam		1	60.00	
Total		3	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	0	2	0	0	0	3	0	0	3	0	0	3	0	0	0	0
ÖK2	0	2	0	0	0	3	0	0	3	0	0	3	0	0	0	0
ÖK3	0	2	0	0	0	3	0	3	3	0	0	3	0	0	0	0
ÖK4	0	2	0	0	0	3	0	0	3	0	0	3	0	0	0	0
ÖK5	5	2	0	0	0	3	0	5	3	0	0	3	0	0	0	0
ÖK6	3	2	0	0	0	3	0	0	3	0	0	3	0	0	0	0
ÖK7	0	2	0	0	0	3	0	0	3	3	0	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			