	ALGAL CULTURES	AND F	PHYTOPLANKTON ECOLOGY						
1	Course Title:	ALGAL (CULTURES AND PHYTOPLANKTON ECOLOGY						
2	Course Code:	BIO5304							
3	Type of Course:	Optional							
4	Level of Course:	Second 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:	none							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Dr. Ögr.	Üyesi DİDEM KARACAOĞLU						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	Dr. Öğr. Üyesi Didem KARACAOĞLU Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: didemk@uludag.edu.tr Telefon: 0 (224) 294 1867 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: didemk@uludag.edu.tr Phone: 0 (224) 294 1867							
17	Website:								
18	Objective of the Course:	The aim of the course is to explain basic concepts of algal culture techniques and phytoplankton ecology. The goal is to give advanced knowledge about relationships between algal culture and algal ecology.							
19	Contribution of the Course to Professional Development:	Learns the basic concepts of microalgae culture. Can apply the knowledge learned about commercially important microalgae species and production methods in the field of algal biotechnology.							
20	Learning Outcomes:								
		1	Be able to describe the structures and life histories of the common algal groups.						
		2	Be able to explain the modern culture methods						
		3	To be able to explain how the physical and chemical properties of water affect the algal growth						
		4	Be able to solve culture problems						
		5	Be able to discuss the effect of environmental factors on the algal culture						

		6	Be able to make population analysis with different culture methods								
		7		Be able to make connections between biology and the other sciences							
		8	В	Be able to access and utilize pertinent large databases							
		9									
		10	T								
21	Course Content:										
		Co	u	rse Content:							
Week	Theoretical		Р	ractice							
1	Be able to access and utilize pertiner databases Basic terminology related to algal cul										
2	The characheristics of algal growth ir of limited volumes	n cultures									
3	Collection, storage and preservation, culture types										
4	Culture parameters such as mixing, s pH, light and temperature	salinity,									
5	Sterilization of culture materials		L								
6	The growth of algae in continuous an continuous cultures	ıd semi-									
7 Activit	Midterm exam, es			Number	Duration (hour)	Total Work Load (hour)					
Theore	night, temperature, saimity, nutnem			14	3.00	42.00					
	The effect of thermal stratification on als/Labs		_	0	0.00	0.00					
Se 10 stu	ปีทลายคุณอย่างสเบทes of phytoplankto	n growth	T	14	5.00	70.00					
Homew	/orks		<u> </u>	2	25.00	50.00					
Project	waters in the spring		Τ	0	0.00	0.00					
Field St	tudies			0	0.00	0.00					
Midtern	succession n exams		L	0	0.00	0.00					
Others		turaa		0	0.00	0.00					
Final E	nxecent interatures related to phytopia kams Jecology	ITKIOTI		1	25.00	25.00					
Total W	/ork Load					187.00					
Total w	rrextbooks, References and/or Other ork load/30 hr IMaterials:		E	oog, G.E. 1965. Algard cology. The University	of Wisconsin Press	06126 p.					
	Credit of the Course					6.00					
			ren Fakuitesi Kitapiar Serisi No. 104. п.Базкі. 100 р. Barsanti L., Gualtieri P. 2002. Algae Anatomy, Biochemistry and Biotechnology. Taylor and Francis Group.301 p.								
23	Assesment	MILITAR =	1.0	/FIGUE							
	EARNING ACTIVITIES	NUMBE R		/EIGHT							
Midterm Exam 0				0.00							
				0.00							
	work-project	1	40.00								
Final E	xam	1	+	0.00							
Total		2	100.00								

Contributi Success (ion of Term (Year) Learning Activities to Grade	40.00					
Contributi	ion of Final Exam to Success Grade	60.00					
Total		100.00					
Measuren Course	ment and Evaluation Techniques Used in the	The system of relative evaluation is applied.					
24 E	CTS / 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	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			:	2 low 3 Me			Medi	dium 4 High				5 Very High				