BIOLOGY OF ALGAE										
1	Course Title:	BIOLOG	Y OF ALGAE							
2	Course Code:	BYL4052	2							
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	cle							
5	Year of Study:	4								
6	Semester:	8								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	2								
11	Prerequisites:	none								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Prof. Dr.	ŞÜKRAN DERE							
15	Course Lecturers:	Yrd.Doç.	Dr Didem KARACAOĞLU							
16	Contact information of the Course Coordinator:	Prof. Dr. Şükran DERE Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Görükle Kampüsü, 16059 Bursa 0(224)2941786 e-posta: sdere@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	The aim of the course is to teach importance and working area of Algal Biology. The goals are to teach morphological structure of algal groups, reproductions and life cycles of algae, cell structure, algal groups which lives in different habitats (freshwater, marine, brackish, soil flora, snow and ice algal flora, spring water algae), relationships among algae and ecological factors, basic principles of algal physiology, economic aspects of the algae and classification criterions.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Describes morphologic structure of algae.							
		2	Explains separation and life periods of algae.							
		3	Explains cytologic properties of algal cell.							
		4	Compares differences between prokaryotic and eukaryotic algal cell.							
		5	Assesses about composition of alga groups living at different habitat ( freshwater algae, marine algae, soil algae,)							
		6	Analyzes basis structural character which are used classification of algae.							
		7	Explains that algal groups have different pigment contents and display variety according to energy needs.							
		8	Explains that algae grow at different medium environment.							
		9	Explains alga groups which have economic significance and that alga groups are used at different applications.							
		10	Evaluates about information of fossil algae.							

21	Course Content:										
	Course Content:										
Week	Theoretical		Practice								
1	Morphology of algae		Entrance								
2	Separation and life periods of algae		Collection of alg samples from land, diagnosis and be evaluated methods.!								
3	Cytology and genetic properties of a	lgae.	Investigation of alg sam	ples: Cyanobacteria	a						
4	Alga of fresh water and ecology of the	nem	Investigation of alg samples: Euglenophyta and Pyrrophyta								
5	Alga of marine and ecology of them		Investigation of alg samples: Bacillariophyta								
6	Algae which live specific system		Investigation of alg samples: Bacillariophyta								
7	Midterm exam, answer of exam ques general discussion	tions and	Midterm exam, answer of discussion	f exam questions a	nd general						
8	Culture of algae		Investigation of alg sam	ples: Bacillariophyta	а						
9	Algae's pigment and energy source		Investigation of alg sam	ples: Chlorophyta							
10	Relationship of energy		Investigation of alg sam	ples: Chlorophyta							
11	Rythm and acts at algae.		Investigation of alg sam	ples: Chlorophyta							
12	Fossil algae		Investigation of alg sam	ples: Phaeophyta							
13	Economic significance of algae		Investigation of alg samples: Rhodophyta								
14	Classification of algae		Algae of soil								
Activit	Textbooks References and/or Other tes		Number	Duration (hour)	ur) Total Work Load (hour)						
Theore	tical		The Ecology of Algae, F	. <b>É</b> .0Round, Cambri	ქე <mark>⊕</mark> Whiversity						
Practic	als/Labs		14	2.00	28.00						
Self3stu	Asses preperation		14	3.00	42.00						
Homew			0	0.00	0.00						
Project	s	R	0	0.00	0.00						
Field S			0	0.00	0.00						
Midtern	n exams	0	0.00	16.00	16.00						
Others			0	0.00	0.00						
FIRAL E	Xams	1	60,00	20.00	20.00						
	Vork Load				120.00						
Contrib Total W Succes	oution of Jerm (Year) Learning Activiti ork load, 30 hr ss Grade	es to	40.00		4.00						
ECTS (	Credit of the Course		00.00		4.00						
	utilon on Final Exam to Success Grad	0	100.00								
Total Measur Course	rement and Evaluation Techniques U	sed in the	100.00								
24	ECTS / WORK LOAD TABLE	1									
25	CONTRIBUTION	OF LEAI	RNING OUTCOMES	TO PROGRAM	IME						

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	3	0	3	0	0	0	0	0	3	3	3	4	0	0	0	0
ÖK2	0	0	3	0	0	3	0	0	3	0	4	3	0	0	0	0

Contrib ution Level:	1	very	low		2 low	1	3	Med	ium		4 Hig	h		5 Ver	y High	I
LO: Learning Objectives PQ: Program Qualifications																
ÖK10	4	0	3	4	0	3	4	3	4	5	4	4	0	0	0	0
ÖK9	3	0	3	3	0	4	3	0	3	5	4	4	0	0	0	0
ÖK8	0	0	3	0	0	3	3	0	3	3	4	4	0	0	0	0
ÖK7	0	0	3	3	0	3	4	0	3	4	4	4	0	0	0	0
ÖK6	4	0	3	4	0	3	4	0	3	5	4	4	0	0	0	0
ÖK5	3	0	3	3	0	4	4	0	3	3	4	4	0	0	0	0
ÖK4	5	0	3	3	0	3	4	0	3	3	4	4	0	0	0	0
ÖK3	0	0	3	2	0	2	3	0	3	3	4	4	0	0	0	0