MARINE BIOLOGY

1	Course Title:	MARINE BIOLOGY
2	Course Code:	BYL4035
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:	Prof. Dr. ŞÜKRAN DERE
15	Course Lecturers:	Prof. Dr. Şükran DERE
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: sdere@uludag.edu.tr Telefon: 0 (224) 294 1786 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 1786
17	Website:	
18	Objective of the Course:	The aim of the course is to teach importance and working area of Marine Biology, to teach basic principals of the marine ecosystem, to understand differences between marine ecology and freshwater ecology, compared with physical, chemical and biological factors, to teach the effects of ecological factors on marine organisms.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Describes the basis concepts at marine ecosystem.
	2	Explains biologic properites of marine organisms.
	3	Explains presence and significance of institution and foundations which deal with marine biology in our country.
	4	Explains reason of marine sediment’s difference.
	5	Explains the content of marine water’s content.
	6	Explains that according to which criteria physicochemical parameters of sea water change.
	7	Explains that the organisms living in the pelagic and benthic area display differences in respect to morphologic, nutrition, reproduction and growing.
	8	Explains that the organisms living in the benthic area display differences in respect to morphologic, nutrition, reproduction and growing.
	9	Explains that different fauna and flora occur ecosystems which have specific demand in nature.

	10	Evaluates positive and negative effects of people upon sea.

21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Historical evolution of marine biology, research institute and International organization, earth features.	
2	Formation of oceans ad seas, ocean pit's formation, geomorphologic sections in the depth oceans and seas.	
3	The physical and chemical properties of sea water, the chemical structure of sea water.	
4	The chemical structure of sea water, The physical properties of sea water.	
5	Living in seas, variety of marine biota, marine ecology, definitions.	
6	Ecologic sections of marine environment, ecologic classification of marine organisms, the effects of ecologic factors on the living, light.	
7	Midterm exam,answer of exam questions and general discussion	
8	Heat, salinity, density, pressure, viscosity, water acts	
9	[illegible]	
10	production, secondary production and energy current	
11	[illegible] epipelagic life, food web at	
12	Mezopelagic zone and depth zone, the living organisms of the benthic area.	
13	specific ecosystems.	
14	[illegible]	
15	the seas.	
16	Materials	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preparation	14	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	16.00	16.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			120.00
Total workload/30 hr			4.00
ECTS Credit of the Course			4.00

3)Su Bitkileri/Deniz Bitkilerinin Biyolojisi, Ekolojisi, Yetiştirme Teknikleri Şükran CİRİK ; Semra CİRİK

23	Assesment

TERM LEARNING ACTIVITIES	NUMBER	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	

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	0	4	0	0	3	0	4	3	0	3	4	0	0	0	0
ÖK2	4	0	4	0	0	4	3	4	3	0	3	3	0	0	0	0
ÖK3	3	0	5	5	0	5	3	3	3	0	3	5	0	0	0	0
ÖK4	3	0	4	4	0	5	4	3	3	4	3	4	0	0	0	0
ÖK5	3	0	4	5	0	5	5	3	3	4	3	4	0	0	0	0
ÖK6	4	0	5	4	0	5	5	3	3	3	3	4	0	0	0	0
ÖK7	5	0	5	4	0	5	4	4	3	3	3	4	0	0	0	0
ÖK8	5	0	5	5	0	5	4	5	3	3	3	4	0	0	0	0
ÖK9	5	0	5	3	0	5	4	5	3	3	3	4	0	0	0	0
ÖK10	3	0	5	4	0	5	3	4	3	3	3	4	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**