

INTRODUCTION TO MARINE BIOLOGY

1	Course Title:	INTRODUCTION TO MARINE BIOLOGY	
2	Course Code:	BYL0539	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	yok	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. GAMZE YILDIZ	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Görükle Kampüsü, 16059 Bursa	
17	Website:		
18	Objective of the Course:	To understand the meaning and field of study of Marine Biology, to teach the basic principles of the marine ecosystem, to compare physical, chemical and biological factors and to teach the effects of ecological factors on marine organisms.	
19	Contribution of the Course to Professional Development:	To understand the meaning and field of study of Marine Biology, to teach the basic principles of the marine ecosystem, to compare physical, chemical and biological factors and to teach the effects of ecological factors on marine organisms.	
20	Learning Outcomes:		
		1	Describes the basis concepts at marine ecosystem.
		2	Explains that according to which criteria physicochemical parameters of sea water change.
		3	Explains that living things in Pelagic and Benthic regions differ in morphological, nutrition, reproduction and development.
		4	To associate marine organisms with abiotic and biotic factors
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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	Life in seas, variety of marine biota, marine ecology			
6	Ecologic sections of marine environment, ecologic classification of marine organisms			
7	The effects of ecologic factors on the living, light.			
8	Heat, salinity, density, pressure, viscosity, water acts			
9	Oxygen, pH, nutritious components, substratum, biotic factors.			
10	Primary production in marine ecosystem, the factors which affect primary and secondary production, secondary production and energy current.			
11	Living community of pelagic area, epipelagic zone, harmony to epipelagic life, food web at the epipelagic zone.			
12	Mezopelagic zone and depth zone, the living organisms of the benthic area.			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	the seas.	14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation	Materials science, 2017, Nobel Yayıncılık	8	9.00	72.00
Homeworks		0	0.00	0.00
Projects		2001"	0.00	0.00
Field Studies		0	0.00	0.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Midterm exams		1	20.00	20.00
Others		0	0.00	0.00
Final Exams		0	30.00	30.00
Total Work Load				150.00
Total work load/ 30 hr		1	60.00	5.00
Final Exam				
ECTS Credit of the Course				5.00
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		classical written exam with long answer, contribution to the lesson		
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	0	0	0	4	0	0	0	0	2	0	0	0	0	0
ÖK2	0	0	0	3	0	5	4	0	0	0	0	0	0	0	0	0
ÖK3	4	0	3	0	0	5	3	4	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	5	3	0	0	0	2	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				