MORPHOLOGY AND SYSTEMATICS OF THE INVERTEBRATE ANIMALS

1	Course Title:	MORPHOLOGY AND SYSTEMATICS OF THE INVERTEBRATE ANIMALS
2	Course Code:	BYL2007
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
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. Hikmet Sami Yıldırımhan
15	Course Lecturers:	Prof. Dr. Hikmet S. YILDIRIMHAN Dr. Öğr. Üyesi Rahşen S. KAYA
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: yhikmet@uludag.edu.tr Telefon: 0 224 294 17 90 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: yhikmet@uludag.edu.tr Phone: 0 224 294 17 90
17	Website:	
18	Objective of the Course:	The aim of the course is to the principles of classification and the concept of species, it is aimed to explain the differentiation of prototostomia and deutorostomia, types of coelom, evolutionary differentiation of unicellular and multicellular invertebrates.
19	Contribution of the Course to Professional Development:	Knows the general characteristics and systematcs of the invertebrates
20	Learning Outcomes:	
	1	Makes the definition of species, species criteria, and knows the general properties of invertebrate animals.
	2	Flagellata, Rhizopoda, Sporozoa, Ciliata belonging to the groups of single-celled creatures and knows the properties.
	3	Knows the general characteristics of phylum and groups of Sporozoa and Coelenterate, makes systematic.
	4	Knows the general characteristics of phylum and groups of Plathelminthes and Nemathelminthes, makes systematic.
	5	Knows the general characteristics of phylum and groups of Acanthocephala and Annelida, makes systematic.
	6	Knows the general characteristics of phylum and groups of Mollusca, makes systematic.
	7	Knows the general characteristics of phylum and groups of Arthropoda, makes systematic.

	8	Knows the general characteristics of phylum and groups of Deuterostomia, makes systematic.
	9	
	10	

21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Species definition and criteria. Nomenclature and classification of invertebrate animals. Explaining the general characteristics of the species.	
2	Explaining the general characteristics and systematics of the phylum Rhizopoda and Flagellata.	
3	Explaining the general characteristics and systematics of the phylum Sporozoa and Ciliata.	
4	Explaining the general characteristics and systematics of the phylum Spongiaria and Coelenterata.	
5	Explaining the general characteristics and systematics of the phylum Plathelminthes, Nemathelminthes and Acanthocephala.	
6	Midterm exam I and subject repetition	
7	Explaining the general characteristics and	
8	Explaining the general characteristics and systematics of the phylum Chaetognatha,	
	and Ctenofa.	
9	Explaining the general characteristics and	
10	Explaining the general characteristics and	
11	Explaining the general characteristics and systematics of the classis Crustacea ve	
12	Chelicerata	
13		
14	Explaining the general characteristics and	
	Chordata and Hemichordata.	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	3	9.00	27.00
Homeworks	1	30.00	30.00
Projects	1	24.00	24.00
Field Studies	0	0.00	0.00
Midterm exams	1	4.00	4.00
Others	0	0.00	0.00
Final Exams	1	2.00	2.00
Total Work Load			115.00
Total work load/ 30 hr			3.83
ECTS Credit of the Course			4.00

22	Textbooks, References and/or Other Materials:	Lecturer's course notes. Salman, S. 2006. Omurgasız Hayvanlar Biyolojisi, Aktaç, N. 2003. Omurgasız hayvanlar Ders kitabı Brusca, R. C. ve Brusca, G. J. 2003. Invertebrates. Campell, N. A. ve Reece, J. B. 2008. Biology. Türkçe Çeviri (eds. E. Gündüz, A. Demirsoy, İ. Türkan). Palme Yayınevi. Pechenik, J. A. 2005. Biology of the Invertebrates, fifth edition. Mc Graw Hill.
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		The writing examination

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	3	2	4	5	3	4	2	5	4	5	5	5	0	0	0	0
ÖK2	3	1	4	5	3	4	2	5	4	5	5	5	0	0	0	0
ÖK3	5	1	3	5	3	4	4	3	4	5	5	5	0	0	0	0
ÖK4	5	1	4	5	3	5	4	4	5	4	5	5	0	0	0	0
ÖK5	5	1	4	5	3	5	4	4	5	5	5	5	0	0	0	0
ÖK6	5	1	4	5	3	4	3	3	4	5	5	5	0	0	0	0
ÖK7	5	1	4	5	3	4	3	3	4	5	5	5	0	0	0	0
ÖK8	5	1	4	5	3	4	3	3	4	5	5	5	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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