

SYSTEMATICS OF THE INVERTEBRATE ANIMALS

1	Course Title:	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:	Bursa Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: yhikmet@uludag.edu.tr Telefon: 0 224 294 17 90 Bursa 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 protostomia and deuterostomia, types of coelom, evolutionary differentiation and systematics of unicellular and multicellular invertebrates.
19	Contribution of the Course to Professional Development:	Knows the general characteristics and systematics 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, and makes systematics
	4	Knows the general characteristics of phylum and groups of Plathelminthes and Nematelminthes, makes systematics
	5	Knows the general characteristics of phylum and groups of Acanthocephala and Annelida, makes systematics
	6	Knows the general characteristics of phylum and groups of Mollusca, makes systematics
	7	Knows the general characteristics of phylum and groups of Arthropoda, makes systematics

	8	Knows the general characteristics of phylum and groups of Deuterostomia, makes systematics
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	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	General characteristics and systematics of the phylum Rhizopoda and Flagellata.	
3	General characteristics and systematics of the phylum Sporozoa and Ciliata	
4	General characteristics and systematics of the phylum Spongiaria and Coelenterata	
5	General characteristics and systematics of the phylum Plathelminthes, Nemathelminthes and Acanthocephala.	
6	General characteristics and systematics of the phylum Nematomorpha, Rotatoria, Gastrotrichia	
7	General characteristics and systematics of the phylum Nemertinea, Bryozoa and Brachiopoda	
8	General characteristics and systematics of the phylum Chaetognatha, Phoronidea, Mesozoa, Echinodera, Priapulida and Ctenophora	
9	General characteristics and systematics of the phylum Annelida	
10	General characteristics and systematics of the phylum Mollusca	
11	General characteristics and systematics of the classis Crustacea ve Myriapoda	
12	General characteristics and systematics of Chelicerata	
13	General characteristics and systematics of the classis Insecta	
14	General characteristics and systematics of the phylum Deuterostomia, Chordata and Hemichordata	
22	Textbooks, References and/or Other Materials:	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		NUMBE R
		WEIGHT
Midterm Exam		1
Quiz		0
Home work-project		0
Final Exam		1
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 exam

24 ECTS / WORK LOAD TABLE

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	14	3.00	42.00
Homeworks	4	5.00	20.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

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	3	4	2	5	4	5	5	5	5	0	0	0	0
ÖK3	5	1	3	5	3	4	4	5	5	5	5	5	0	0	0	0
ÖK4	5	1	4	5	3	5	4	4	5	5	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	5	4	4	5	5	5	5	0	0	0	0
ÖK7	5	1	4	5	3	5	4	4	5	5	5	5	0	0	0	0
ÖK8	5	1	4	5	3	5	4	4	5	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
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