

ECOLOGY OF PARASITISM

1	Course Title:	ECOLOGY OF PARASITISM
2	Course Code:	BIO6504
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Hikmet Sami Yıldırımhan
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	Prof. Dr. Hikmet Sami YILDIRIMHAN yhikmet@uludag.edu.tr 0224 2941790 Uludağ Üniversitesi, Fen – Edebiyat Fakültesi, Biyoloji Bölümü, 16059, Nilüfer-Bursa
17	Website:	
18	Objective of the Course:	General characteristics, ecology and parasitic effects of Rhizopoda, Flagellata, Ciliata, Cnidosporidia and Sporozoa. Morphology, ecology and effects on host in Acanthocephala, Annelida and Arthropoda groups. Characteristics of parasite vertebrata animals and effects on host. It has aimed to give relationship among parasite species.
19	Contribution of the Course to Professional Development:	General characteristics, ecology and parasitic effects of Rhizopoda, Flagellata, Ciliata, Cnidosporidia and Sporozoa. Morphology, ecology and effects on host in Acanthocephala, Annelida and Arthropoda groups. Characteristics of parasite vertebrata animals and effects on host. It has aimed to give relationship among parasite species.
20	Learning Outcomes:	
	1	The students know description of ecology and connection with other sciences.
	2	They comprehend relationship between ecological factors and parasites.
	3	They have knowledge of interspecies and intraspecies relationships.
	4	They learn species-environment correlation which is important ecological cycle.
	5	They comprehend identification of several species of subphylum: Protozoa, their morphologic, systematic and parasitic characteristics.
	6	They comprehend identification of several species of subphylum: Metazoa, their morphologic, systematic and parasitic characteristics.
	7	They describe relationships between parasite and host.
	8	They describe effects of parasite on host.
	9	They classify parasite species to life styles.

		10	They comprehend evolutionary aspect of parasitism.	
21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	Description and history of Ecology, groups of ecology, correlation of ecology with other sciences, some basic concepts in ecology.			
2	Parasitism, ectoparasite and endoparasite concepts.			
3	Life styles of parasites and their intermediate hosts. Methods which are used parasite identification.			
4	Classification, general characteristics, morphology, life cycles, ecology and parasitic effects of Phylum:Flagellata, classification of Phylum:Rhizopoda. Parasitic effects, life cycle and medical importance of Entamoeba histoloytica from Rhizopoda			
5	Classification, general characteristics, morphology, life cycles, ecology of Phylum:Ciliata, classification of Phylum:Rhizopoda. Parasitic effects and life cycle of Balantidium coli.			
6	General characteristics, morphology, life cycles, ecology and parasitic effects of Phylum:Sporozoa, classification of			
Activites		Number	Duration (hour)	Total Work Load (hour)
7	General characteristics and classification of Phylum: Platyhelminthes. General	14	3.00	42.00
Practicals/Labs		0	0.00	0.00
	Monogenea. Parasitic effects and life cycles of Dactylogyrus sp., Gyrodactylus sp.	14	6.00	84.00
Homeworks		3	4.00	12.00
8	General characteristics and morphology of	2	5.00	10.00
Field Studies		0	0.00	0.00
Midterm Exams		0	0.00	0.00
Others		0	0.00	0.00
	Classis: Cestoda Parasitism and life cycles of Caryophyllaeus sp. , Bothriocephalus sp. from	1	32.00	32.00
Total Work Load				180.00
10	General characteristics and classification of Phylum: Nemathelminthes. Parasitism and			6.00
ECTS Credit of the Course				6.00
	lumbricoides			
11	General characteristics and classification of Phylum: Nematomorpha.			
12	General characteristics and classification of Phylum: Acanthocephala. Parasitism and life cycles of Acanthocephalus sp. and Neoechinorhynchus sp			
13	Morphology, ecology and effects on host organisms of Phylum: Annelida.			
14	Morphology, ecology and effects on host organisms of Phylum: Arthropoda.			

22	Textbooks, References and/or Other Materials:	1- Combes, C. Parasitism. The Ecology and Evolution of Intimate Interactions. 2001. The University of Chicago Press. Chicago and London. 2- Barnard C. J. , Behnke J. M. (1990) Parasitism and host behaviour. Taylor & Francis.London 3- Olsen W. O., Animal Parasites, Their Life Cycles and Ecology.1974. Dover Publications, Inc., New York.
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		The writing examination

24	ECTS / WORK LOAD TABLE
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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	4	1	4	5	3	0	4	5	3	4	0	5	0	0	0	0
ÖK2	0	2	4	5	0	0	4	5	4	4	0	5	0	0	0	0
ÖK3	0	1	4	5	2	5	0	0	3	5	5	5	0	0	0	0
ÖK4	4	3	0	5	0	4	0	4	4	5	5	5	0	0	0	0
ÖK5	0	1	5	5	3	5	4	4	3	4	5	5	0	0	0	0
ÖK6	5	2	0	5	0	5	0	5	5	5	0	0	0	0	0	0
ÖK7	0	0	4	5	0	5	4	5	5	5	0	0	0	0	0	0
ÖK8	5	3	0	5	3	4	4	5	0	5	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			