



NEAR EAST UNIVERSITY

Faculty of Veterinary Medicine Course Curriculum

1.	Course Name	HELMINTHOLOGY
2.	Course Code	VTE314
3.	Course Type	Compulsory
4.	Course Level	Undergraduate
5.	Year	3
6.	Semester	Spring, 6VET
7.	ECTS Credits	3
8.	National credits	3
9.	Theoretical Course Hours (hours/week)	2
10.	Applied Course Hours (hours/week)	2
11.	Course Prerequisites	None
12.	Other Topics Recommended for the Course	None
13.	Course Language	English
14.	Course Format	Face-to-face
15.	Course Coordinator	Prof. Dr. Müfit TOPARLAK
16.	Other Lecturers that Give the Course	None
17.	Communication Details of the Coordinator	
18.	Course Web Address	https://uzem.neu.edu.tr/course/view.php?id=12521

19.	Course Aim	To provide students with skills on helminth species parasitizing domestic animals such as cattle, sheep, goats, pigs, horses, donkeys, cats, dogs and poultry, their development, epidemiology, pathogenicity, symptoms, diagnosis, treatment and protection of hosts.
20.	Contribution of the Course to Occupational Development	Students will be able to recognize parasitizing helminths in animal groups such as ruminants, equids, pigs, carnivores, poultry, diagnose them and apply treatments

21.	Course Learning Outcomes	LO1	Recognizes parasitic helminths in ruminant, equids, cats, dogs, pigs and poultry.
		LO2	Learns the development of parasitic trematodes, cestodes and nematodes in ruminants, equids, carnivores, pigs and poultry.
		LO3	Learns the pathogenicity and symptoms of the adult and larval stages of helminths in the hosts.
		LO4	Will learn the pathogenicity and symptoms that helminths cause in their habitat during the adult and larva stages
		LO5	Learns the treatment and prevention methods of helminth infections.
		LO6	Learns the economic losses associated with diseases caused by helminths.

22.		WEEK	THEORETICAL COURSE CONTENT	APPLICATION CONTENT
		1.	General characteristics of Helminths and Trematodes	Macroscopic and microscopic appearance and properties of some helminth and trematode specimens; Diagnosis of trematode eggs by sedimentation method
		2.	Epidemiology, morphological and biological features of Fasciolosis, diagnosis, treatment, prevention	Macroscopic and microscopic examination of Fasciola spp. eggs and adults
		3.	Epidemiology, morphological, biological features of Dicrocoeliosis and Paramphistomosis, diagnosis, treatment, prevention	Macroscopic and microscopic examination of Dicrocoelium and Paramphistomidae eggs and adults
		4.	Opisthorchidae, Heterophyidae, their species and the infections they cause	Macroscopic and microscopic examination of Opisthorchis spp. and Heterophyes spp. adults
		5.	Cestodes; Cyclophyllidae and Pseudophyllidae species, their general characteristics and the infections they cause	Macroscopic and microscopic appearance and properties of some Cyclophyllidae and Pseudophyllidae specimens; Stool examination by flotation method

	Course Content	6.	Anoplocephalidae, Davainidae species and the infections they cause	Macroscopic and microscopic examination of Anoplocephalidae and Davainidae eggs and adults
		7.	Dilepididae, Taenidae, Mesocystoididae species and diseases	Macroscopic and microscopic examination of Dilepididae, Taenidae, Mesocystoididae eggs and adults
		8.	General morphological and biological features of nematodes	Macroscopic and microscopic appearance and properties of some nematode samples; Demonstration of flotation-based methods for detecting nematode eggs
		9.	Trichostrongylidae species and the diseases they cause	Macroscopic and microscopic examination of Trichostrongylidae eggs and adults
		10.	Strongylidosis in Equidae	Macroscopic and microscopic examination of Strongylidae eggs and adults
		11.	Ancylostomidae and Syngamidae species and the infections they cause	Macroscopic and microscopic examination of Ancylostomidae and Syngamidae eggs and adults
		12.	Ascarid infections in pets	Macroscopic and microscopic examination of Ascaridia eggs and adults; Studying the differences between domesticated ascarid eggs
		13.	Lung worms in pets	Macroscopic and microscopic examination of lungworm larvae and adults; Application of the Baerman funnel method
		14.	Oxyuridae, Theileziidae, Trichuridae, Filariidae, Spiruridae, Onchocercidae, Dioctophymatidae species and the diseases they cause	Macroscopic and microscopic examination of Oxyuridae, Theileziidae, Trichuridae, Filariidae, Spiruridae, Onchocercidae, Dioctophymatidae eggs/larvae and adults; Application of cellophane tape diagnostic method
23.	Course Book, References and/or Other Resources	1. Veteriner Parazitoloji, Hayvan Türlerine göre (Recep Tınar, Şinasi Umur), Güneş Tıp Kitabevleri, 2015 2. Helmintoloji (Ahmet Doğanay), 2018		

24.		SEMESTER WORK	NUMBER	PERCENTAGE OF CONTRIBUTION
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	Evaluation	Midterm Exam	1	40
		Short Exam		
		Homework, Performance		
		End of Year Exam	1	60
		Total	2	100
		Evaluation Approaches	Exams will be evaluated in the form of tests	

25.	ECTS / Workload Table			Duration [Hours]	Total Workload [Hours]
		Activity	NUMBER		
		Theoretical Courses	14	2	28
		Applied Courses	14	2	28
		Extracurricular Lesson Study Time (Preparation, revising)	14	1	14
		Homework, Performance			
		Projects			
		Field Studies	4	3	12
		Midterm Exams	1	1	1
		Other			
		End of Semester Exams	1	1	1
		Total Workload			84
		Total Workload/ 30 Hours			2.8
		Course ECTS Credits			3