



**NEAR EAST UNIVERSITY**  
**Faculty of Veterinary Medicine Course Curriculum**

1.	<b>Course Name</b>	ENTOMOLOGY
2.	<b>Course Code</b>	VTE311
3.	<b>Course Type</b>	Compulsory
4.	<b>Course Level</b>	Undergraduate
5.	<b>Year</b>	3
6.	<b>Semester</b>	Fall 5VETE
7.	<b>ECTS Credits</b>	2
8.	<b>National credits</b>	2
9.	<b>Theoretical Course Hours (hours/week)</b>	1h/week
10.	<b>Practical Course Hours (hours/week)</b>	2h/week
11.	<b>Course Prerequisites</b>	None
12.	<b>Other Topics Recommended for the Course</b>	None
13.	<b>Course Language</b>	English
14.	<b>Course Format</b>	Face-to-face
15.	<b>Course Coordinator</b>	Prof. Dr. Müfit TOPARLAK
16.	<b>Other Lecturers that Give the Course</b>	None
17.	<b>Communication Details of the Coordinator</b>	
18.	<b>Course Web Address</b>	
19.	<b>Course Aim</b>	To teach the arthropod parasites in domestic animals, their development, the disorders they cause in the host organism, their epidemiology, diagnosis, treatment and prevention methods and gain the ability to apply them. To introduce vectors that cause zoonotic diseases.
20.	<b>Contribution of the Course to Occupational Development</b>	By recognizing external parasites, it will be possible to determine the correct treatment and prevention methods as a result of correct diagnosis.

21.	<b>Course Learning Outcomes</b>	<b>LO1</b>	Recognizes parasitic arthropods in ruminants, Equidae, cats, dogs, pigs and poultry.
		<b>LO2</b>	Learns the development of parasitic arthropods in domestic animals
		<b>LO3</b>	Learns the clinical and laboratory diagnosis of arthropod infestations.
		<b>LO4</b>	Learns the treatment, fight against and prevention of arthropod infestations.
		<b>LO5</b>	Learns the contagious diseases that spread through arthropods, how they spread and how to prevent this.

22.	<b>Course Content</b>	<b>WEEK</b>	<b>THEORETICAL COURSE CONTENT</b>	<b>APPLICATION CONTENT</b>
		<b>1.</b>	General introduction of the arthropodology course, its features and the general structure of the course.	Comparison of Arthropods (Insects and Mites)
		<b>2.</b>	Flies (Diptera) classification, morphology, control of mosquitoes	Dealing with flies (Farm Practice)
		<b>3.</b>	Vectors and control of houseflies, midges, Tabanids and tsetse flies	Indoor application (Laboratory-fly types)
		<b>4.</b>	Myiasis agents' morphology, biology, symptoms, prevention and control methods, screwworm and parasitism	Myiasis flies (collection) and screwworm films
		<b>5.</b>	Infestations of Cimicidae, Blattaria, Odonata and Coleoptera as a vector, their treatment and precautions.	Preparation of Blattaria and Cimex spp. and their microscopical screenings
		<b>6.</b>	Fleas, Morphology, Taxonomy, Biology vectors, Flea allergy treatment and prevention	Flea preparations and laboratory examination techniques
		<b>7.</b>	Ticks in the Ixodidae family, morphology, biology, diagnosis, treatment and prophylaxis and vectoring	Pasture ticks, genus discrimination, seasonal activities, body parts they choose in animals
		<b>8.</b>	Ticks in the Argasidae family, morphology, biology, diagnosis, treatment and prophylaxis and vectoring	Argasidae ticks, genus differentiation and development stages microscopy
		<b>9.</b>	Morphology, biology, diagnosis, treatment and prophylaxis of house dust mite, Dermanyssus, Ornithonyssus, Acarus spp.	House dust mites and Dermanyssus collection
		<b>10.</b>	Mallophaga and Anoplura infestations in mammals	Farm practice, inspection of lice and collection techniques

		11.	Mallophaga and Anoplura infestations in poultry	Microscopy of Mallophaga and Anaplura
		12.	Morphology and biology of scabies species	Searching for scabies agents, examination techniques
		13.	Comparison of scabies agents, diagnosis, treatment and prophylaxis	Microscopy of scabies agents
		14.	Arthropods zoonoses and conservation	Examination techniques of arthropods for zoonotic parasites
23.	Course Book, References and/or Other Resources	1. Aydın L, Girişgin AO. (Ed.). Artropodoloji (Veteriner Hekimler için), Dora Yayıncılık, Bursa, 2021. 2. Uslu U, Altay K. (Ed.). Türkiye’de Önemli Arthropodlar ve Vektörlükleri. Medisan Yayınevi, Ankara, 2021. 3. Mullen GR, Durden LA, 2009: Medical and Veterinary Entomology. Academic Press.		

24.	Evaluation	SEMESTER WORK	NUMBER	PERCENTAGE OF CONTRIBUTION
		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	Activity	NUMBER	Duration [Hours]	Total Workload [Hours]
		Theoretical Courses	14	1	14
		Applied Courses	14	2	28
		Extracurricular Lesson Study Time (Preparation, revising)			
		Homework, Performance	4	2	8
		Projects			
		Field Studies	4	2	8
		Midterm Exams	1	1	1
		Other			
		End of Semester Exams	1	1	1
		Total Workload			60
		Total Workload/ 30 Hours			60/30
		Course ECTS Credits			2