



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Diagnostic Methods Of Ticks							
Course Code		VPR659		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The objective of this course, being have knowledge about which tick species of the domesticated animals, distribution, identification of tick species, medical importance of ticks, control methods against ticks							
Course Content		Diagnose in Ixodidae and Argasidae tick species, morphology of Ixodes, Hyolamma, Amblyomma, Rhipicephalus, Boophilus, Dermacentor, Haemaphysalis, Argas ve Ornitorodorus tick species, diagnostic criteria of larvae, nymph, adult male and female							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	20
Final Examination	1	60
Quiz	2	10
Assignment	2	10

Recommended or Required Reading

1	KURTPINAR H. Türkiye Keneleri. Güven Matbaası, Ankara, sayfa, 1 – 96, 1954
2	MERDİVENCİ A. Türkiye Keneleri Üzerine Araştırmalar. Kutulmuş Matbaası, İstanbul, sayfa 1 – 420, 1969
3	MİMLİOĞLU M. Veteriner ve Tıbbi Artropodoloji. Ankara Üniversitesi Veteriner Fakültesi Yayınları 295, sayfa 181–243, 1973
4	HOOGSTRAL H. African Ixodoidea. I Ticks of the Sudan. U.S. Naval Medical Research Unit Cairo, Egypt, No: 3, page 1 – 1101+II, 1956
5	AYDIN L. Güney Marmara Bölgesi Ruminantlarında Görülen Kene Türleri ve Yayılışları. Uludağ Üniversitesi Sağlık Bilimleri Enstitüsü, Doktora Tezi, , Bursa, 1994
6	ARTHUR DR. Ticks of the Genus Ixodes in Africa. University of London, The Athlone Press, page 1 – 348+VII, 1965
7	ARTHUR DR. British Ticks. Butterworth, Co. (Publishers) Ltd, page 1 – 211+VII, 1963
8	ESTRADA PENA A, BOUATTOUR A, CAMICAS JL, WALKER AR. Ticks of Domestic Animals in the Mediterranean Region: a Guide to Identification of Species. Published by University of Zaragoza, Spain, page 1 – 131+VI, 2004
9	ANASTOS G. The Ticks or Ixodides of The USSR. A Review of the Literature Health, Education and Welfare Public Health Service National Institution of Health. No: 548, page 1 – 397+VI, 1957
10	WALKER AR, BOUATTOUR A, CAMICAS JL, ESTRADA PENA A, HORAK IG, LATIF AA, PEGRAM RG, PRESTON PM. Ticks of Domestic Animals in Africa: A Guide to Identification of Species. Published by Bioscience Reports, Scotland, U.K. page 1 – 221+VI, 2003
11	BAKIRCI S. Batı Ege Bölgesi Sığırlarında Görülen Kene Türleri ve Yaygınlığı, Doktora Tezi, 2009, BURSA

Week	Weekly Detailed Course Contents	
1	Theoretical	Identify the species of ticks existed in the world
	Practice	Microscope, and apparatus used for the identification of tick species
2	Theoretical	Identify the species of ticks existed in the Turkey
	Practice	Stereo microscope to show which morphological differences in the species with the family Argasidae and Ixodidae
3	Practice	Distinction between of the genus in the family Argasidae, identification of existing species
4	Theoretical	Identify the species of ticks in the family Argasidae
	Practice	Distinction between of the genus in the family Ixodidae
5	Theoretical	Identify the species of ticks in the family Ixodidae
	Practice	Identification of the species in the genus Ixodes
6	Theoretical	The prevalence of tick species in the family Argasidae and Ixodidae
	Practice	Identification of the species in the genus Hyalomma
7	Theoretical	Biology of ticks



7	Practice	Identification of the species in the genus Hyalomma
8	Intermediate Exam	Midterm Examination
9	Theoretical	Dermacentor cinsinde bulunan türlerin identifikasyonu
	Practice	Identification of the species in the genus dermacentor
10	Theoretical	Learn the criteria for identification of the species in Argasidae family
	Practice	Rhipicephalus cinsinde bulunan türlerin identifikasyonu
11	Theoretical	Learn the criteria for identification of the species in Ixodidae family
	Practice	Identification of the species in the genus Boophilus
12	Theoretical	Ecology of ticks
	Practice	Identification of the species in the genus Haemaphysalis
13	Theoretical	Medical importance of ticks
	Practice	Removal and staining of the salivary gland of ticks
14	Theoretical	Control methods can be applied against ticks
	Practice	To teach the methods for the colonization of tick species
15	Theoretical	Discussion
	Practice	Discussion
16	Final Exam	Final exam
17	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	2	2	1	6
Laboratory	14	0	1	14
Quiz	2	4	1	10
Midterm Examination	1	2	2	4
Final Examination	1	8	2	10
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To have an information about the life stages of ticks
2	To have a knowledge about the tick species of domestic animals and humans
3	Identification of tick species
4	To have an information about the medical importance of ticks
5	Being have knowledge about control strategies of ticks

Programme Outcomes (Parasitology (Veterinary Medicine) Doctorate)

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Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High



	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P2	5	5	4	4	5
P3	4	4	5	5	4
P4	4	4	4	4	4
P5	5	5	5	5	5
P6	4	4	4	4	4
P7	1	3	3	2	2
P8	4	4	4	4	4
P9	4	4	4	4	4
P11	5	5	5	5	5

