



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Theileriosis Ve Babesiosis							
Course Code		VPR648		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	98 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The objective of this course is to teach the diagnosis, treatment and control methods for theileriosis ve babesiosis and to maket he student comprehend their importance fort he animal husbandry in Turkey.							
Course Content		Species of theileria and babesia in cattle, sheep and goats, cats and dogs etc. , their morphology, infection routes, differential diagnosis for the species, clinical signs of the diseases, epidemiology and prevalence of diseases, treatment and control measures.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
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	Yukarı, B.A., (2000) Protozooloji, Akdeniz Üniversitesi Burdur Veteriner Fakültesi Ders Notu, Burdur.
2	Dik, B., Sevinç, F. (2002) Veteriner Protozooloji, Selçuk Üniversitesi Veteriner Fakültesi, Konya.
3	Tüzer, E., Toporlak, M. (1999) Veteriner Protozooloji, İstanbul Üniversitesi Veteriner Fakültesi Ders Notu, İstanbul.
4	Kaufmann, J. (1996) Parasitic Infections of Domestic Animals, Birkhäuser, Switzerland.
5	Peters, W., Pasvol, G. (2002) Tropikal Medicine and Parasitology, Mosby International Limited, China.
6	Soulsby, E.J.L. (1986) Helminths, Arthropods and Protozoa of Domesticated Animals, William Cloves Limited, Great Britain.
7	Burgu, A., Karaer, Z. (2005) Parazit Hastalıklarında Tedavi, Türkiye Parazitoloji Derneği, İzmir.
8	Dumanlı, N., Karaer Z. (2010). Veteriner Protozooloji. Medisan Yayınevi, Ankara
9	Dobbelaere, D. A. E., McKeever, D. J. (2002). Theileria. CAB Direct Collection.

Week	Weekly Detailed Course Contents	
1	Theoretical	Classification and introduction to Babesiidae
	Practice	Diagnostic metdods for species of Babesia and Theileria
2	Theoretical	Pathogenesis and biology of Babesia species
	Practice	Examination of microscopic slides for Babesia
3	Theoretical	Immunology in babesiosis
	Practice	Examination of microscopic slides for Theileria
4	Theoretical	Treatment, prevention and control
	Practice	Cell culture for Babesia species-I
5	Theoretical	Babesia species and diseases they cause in ruminants
	Practice	Cell culture for Babesia species-I
6	Theoretical	Babesiosis in cats, dogs and pigs
	Practice	Theileria macroschizont culture-I
7	Theoretical	Babesiosis in euidae and humans
	Practice	Theileria macroschizont culture-II
8	Intermediate Exam	Midterm
9	Theoretical	Classification and introduction to Theileridae and its importance for Turkey
	Practice	Preperation of IFAT antigens from Theileria macroschizont culture
10	Theoretical	Pathogenesis and biology of Theileria species
	Practice	Preperation of piroplasm for IFAT for babesia and theileria



11	Theoretical	Immunity in theileriosis
	Practice	Performing IFAT using theileria piroplasm antigens and evaluation of results
12	Theoretical	Treatment, prevention and control
	Practice	Performing IFAT using theileria macroschizont antigens and evaluation of results
13	Theoretical	Theileria species and diseases they cause in ruminants
	Practice	Diagnosis by PCR-I
14	Theoretical	Theileria species and diseases they cause in sheeps and goats
	Practice	Diagnosis by PCR-I
15	Theoretical	Theileriosis in cats, dogs and other animals
	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	0	5	10
Reading	1	0	5	5
Quiz	1	4	0.5	4.5
Midterm Examination	1	10	1	11
Final Examination	1	10	2	12
Total Workload (Hours)				98
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Learns how species of Theileria and Babesia infect animals and diseases caused by these species
2	Learns the clinical signs and differential diagnosis of theileriosis ve babesiosis in domestic animals
3	Gains hands-on practice in using routine and advanced diagnostic methods for the diagnosis of these diseases.
4	Gains information about the economical impact of diseases in Turkey
5	Understands control measures that can be taken for these diseases.

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	2	5	4	5
P2	4	3	2	4	4
P3	2	3	2	4	2
P4	3	3	2		3
P5	2	4	1		2



P6	3		3		3
P7	5	4	5		5
P8	2				2
P9	2				2
P11	3	4	4	3	3

