



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Epidemiology and Ecology of Parasitic							
Course Code		VPR552		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	1	Workload	26 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		The objective of this course is to be able to tell about parasite ecology and epidemiology, their practical application and importance.							
Course Content		Epidemiology in parasitic diseases, importance of ecology in epidemiological studies and ecology of parasites causing economical problems in domestic animals							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Pullan RL, Sturrock HJ, Soares Magalhães RJ, Clements AC, Brooker SJ. Spatial parasite ecology and epidemiology: a review of methods and applications. <i>Parasitology</i> . 2012 Dec;139(14):1870-87. doi: 10.1017/S0031182012000698.Review
2	Camp JW (2012) Introduction to the Special Issue on Epidemiology and Ecology of Parasitic Diseases. <i>J Clin Exp Pathol</i> S3:e001. doi:10.4172/2161-0681. S3-e001
3	Johnson PT, Dobson A, Lafferty KD, Marcogliese DJ, Memmott J, Orlofske SA, Poulin R, Thieltges DW. (2010). When parasites become prey: ecological and epidemiological significance of eating parasites. <i>Trends Ecol Evol.</i> ; 25(6):362-71. doi: 10.1016/j.tree.2010.01.005. Review.
4	ARTOIS M, (1993). Epidemiology of contagious diseases, ecology of mammals, health, management and conservation biology: concluding remarks <i>Rev. sci. tech. Off. int. Epiz.</i> , 1993,12 (1), 203-218.
5	KAUFMANN, J. (1996). Parasitic Infections of Domestic Animals. Birkhäuser. Switzerland.
6	PETERS, W., PASVOL, G. (2002). Tropical Medicine and Parasitology. Mosby International Limited. China.
7	SOULSBY, E. J. L., (1986). Helminths, Arthropods and Protozoa of Domesticated Animals. William Cloves Limited. Great Britain.
8	SCHMIDT, G.D. (1985). Foundations of Parasitology.
9	URGUHART, G.M., (1987) Veterinary Parasitology , Longman Scientific and Technical, England

Week	Weekly Detailed Course Contents	
1	Theoretical	Parasites, pathogens, and other definitions
2	Theoretical	Parasites, pathogens, and other definitions
3	Theoretical	The importance of ecological epidemiology
4	Theoretical	The importance of ecological epidemiology
5	Theoretical	The dynamics of parasites within populations: transmission
6	Theoretical	The dynamics of parasites within populations: transmission
7	Theoretical	The population dynamics of infection
8	Intermediate Exam	Midterm exam
9	Theoretical	Population dynamics of infection
10	Theoretical	Parasites and the dynamics of hosts
11	Theoretical	Parasites and the dynamics of hosts
12	Theoretical	Shared parasites—zoonoses
13	Theoretical	Shared parasites—zoonoses
14	Theoretical	Roles and effectiveness of chemotherapy and chemoprophylaxis in control of parasites
15	Theoretical	Discussion
16	Final Exam	Final exam



17	Final Exam	Final exam
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Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
Total Workload (Hours)				26
[Total Workload (Hours) / 25*] = ECTS				1

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to define main concepts in parasite epidemiology
2	To be able to apply techniques used in epidemiological surveys
3	To be able to analyse and interpret ecological and epidemiological data
4	To be able to debate the roles and effectiveness of chemotherapy and chemoprophylaxis in control of parasites
5	Knows how to use epidemiological studies to control human and animal diseases.

Programme Outcomes (Parasitology (Veterinary Medicine) Master)

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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
P2	4				5
P3	4		5	5	5
P4	5		5	5	4
P5		4			3
P6					4
P7		4			3
P8					1
P9			4	5	2
P10			4		
P12		4			

