



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Vaccination in Parasitology							
Course Code		VPR546		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	54 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The purpose of this course is to be able to tell about immunity in parasitic diseases and vaccines used against parasites.							
Course Content		Immunity in parasitic diseases, vaccinees against helminths, protozoa and arthropods.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study					
Name of Lecturer(s)		Lec. Metin PEKAĞIRBAŞ							

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	TÜZER, E , TOPARLAK, M (2000) : Veteriner Helmintoloji , İ.Ü.Ders Notları.
2	GÜRALP, N. (1981). Helmintoloji. A.Ü.Basımevi, Ankara.
3	URQUHART, GM , et. al. (1987) : Veterinary Parasitology , Longman Scientific and Technical.
4	BOWMAN, D.D.,R.C. Lynn, (1995). Georgis' Parasitology for veterinarians. W. B. Saunders Company, USA.
5	SCHMIDT, G.D. (1985). Foundations of Parasitology.
6	ÖZCEL, M.A. (2007). Özcel'in Tıbbi Parazit Hastalıkları. Türkiye Parazitoloji Derneği Yayını No: 22. Meta Basım, İzmir.

Week	Weekly Detailed Course Contents	
1	Theoretical	Natural immunity
2	Theoretical	Acquired immunity
3	Theoretical	Parasite antigens
4	Theoretical	Hybridoma technology and monoclonal antibodies
5	Theoretical	Structure of immune system
6	Theoretical	Cellular immunity
7	Theoretical	Immune system cells
8	Intermediate Exam	Midterm exam
9	Theoretical	Humoral immunity
10	Theoretical	The complement system
11	Theoretical	Cytokines, Leukotrienes, Prostaglandins
12	Theoretical	Immunity in host organism
13	Theoretical	Vaccines developed against helminthes
14	Theoretical	Vaccines developed against protozoa
15	Theoretical	Vaccines developed against arthropods.
16	Final Exam	Final examination
17	Final Exam	Final examination

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Reading	14	0	0.5	7
Quiz	2	0.5	0.5	2
Midterm Examination	1	5	1	6



Final Examination	1	10	1	11
Total Workload (Hours)				54
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Understanding the immune mechanisms in parasitic diseases
2	Have the knowledge on the vaccines developed against helminthes
3	Have the knowledge on the vaccines developed against protozoons
4	Have the knowledge on the vaccines developed against artropods
5	Have the knowledge of new technologies on vaccine development

Programme Outcomes (Parasitology (Veterinary Medicine) Master)

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

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	4				4
P3	3	5	5	5	4
P4	3	4	4	4	5
P5	4	5	5	5	2
P6	4	5	5	5	2
P7		5	5	5	5
P8	4	4	4	4	4
P9	4	5	5	5	5
P10	5	5	5	5	1
P11	5	5	5	5	
P12		5	5	5	5

