



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
VETERINARY MICROBIOLOGY
MICROBIOLOGY
MICROBIOLOGY (VETERINARY) MASTER'S WITHOUT THESIS
COURSE INFORMATION FORM

Course Title	Humoral and Cellular Immunity								
Course Code	MİK507		Course Level		Second Cycle (Master's Degree)				
ECTS Credit	4	Workload	100 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The objective of this course is to give information about humoral and cellular immunity.								
Course Content	Introduction to immunology and basic terms. Identification and classification of immunity. Factors that affect immunity. The secondary defence mechanisms that affect immunity. Antigens, the identification and classification of antigens and their reactions. Identification of humoral and cellular immunity, their reactions and differences.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, 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	4	10

Recommended or Required Reading	
1	Handbook of Vertebrate Immunology
2	Veterinary Immunology
3	İmmunoloji

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to immunology and basic terminology
2	Theoretical	Definition of immunity
3	Theoretical	Classification of immunity
4	Theoretical	Factors that affect immunity
5	Theoretical	Factors that affect immunity
6	Theoretical	Secondary defence mechanisms in immunity and their reactions
7	Theoretical	Secondary defence mechanisms in immunity and their reactions
8	Intermediate Exam	Midterm Examination
9	Theoretical	Antigens, the identification and classification of antigens and their reactions.
10	Theoretical	Antigens, the identification and classification of antigens and their reactions.
11	Theoretical	Identification of humoral and cellular immunity
12	Theoretical	Identification of humoral and cellular immunity
13	Theoretical	Reactions that occur in humoral and cellular immunity, their differences
14	Theoretical	Reactions that occur in humoral and cellular immunity, their differences
15	Theoretical	Discussion

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	4	6	1	28
Laboratory	14	0	2	28
Quiz	2	5	1	12
Midterm Examination	1	1	1	2



Final Examination	1	1	1	2
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. To be able to define humoral and cellular immunity
2	2. To be able to describe the factors that affect immunity
3	3. To be able to define antigens and their reactions
4	4. To be able to use the necessary information
5	To be able to use the necessary information.

Programme Outcomes (Microbiology (Veterinary) Master's Without Thesis)

1	Department has the ability to identify and apply information about bacteriology, virology, mycology and has the ability to recognize diseases about veterinary medicine
2	Department has the ability to take the advantage of technology and has the ability to diagnose, treat and prevent the diseases by using appropriate equipments
3	Department has the ability to analyze the epidemiological compounds of an animal population and has the ability to get precautions.
4	Department has the ability to test or analyze the diseases and has the ability to evaluate the results.
5	Department has the ability to perform, produce and conclude projects for scientific researches.

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	4	4	4	5	4
P2	4	4	4	5	5
P3	5	5	4	5	5
P4	4	4	4	4	5
P5	5	5	5	4	4

