



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

Course Title	Immunological Tolerance								
Course Code	MİK546	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	1	Workload	31 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course	The objective of this course is to give information about immunological tolerance.								
Course Content	Self tolerance; T cell tolerance; B cell tolerance; passive tolerance; foreign antigen tolerance								
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	40
Final Examination	1	60

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

Week	Weekly Detailed Course Contents	
1	Theoretical	Self tolerance
2	Theoretical	Self tolerance
3	Theoretical	Self tolerance
4	Theoretical	T cell tolerance
5	Theoretical	T cell tolerance
6	Theoretical	T cell tolerance
7	Theoretical	B cell tolerance
8	Intermediate Exam	Midterm Examination
9	Theoretical	B cell tolerance
10	Theoretical	B cell tolerance
11	Theoretical	Passive tolerance
12	Theoretical	Passive tolerance
13	Theoretical	Foreign antigen tolerance
14	Theoretical	Foreign antigen tolerance
15	Theoretical	Discussion

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	0	1	1
Final Examination	1	1	1	2
Total Workload (Hours)				31
[Total Workload (Hours) / 25*] = ECTS				1

*25 hour workload is accepted as 1 ECTS

Learning Outcomes	
1	1. To be able to describe immunological tolerance
2	2. To be able to classify and describe self tolerance; T cell tolerance; B cell tolerance; passive tolerance; foreign antigen tolerance



3	3. To be able to use the necessary information.
4	To know the mechanisms of T and B cells.
5	To know the mechanisms of immunological tolerance formation.

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	5	5	4	4	5
P2	4	5	5	4	5
P3	5	4	4	5	4
P4	4	5	4	3	5
P5	5	3	3	4	3

