AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Antigen-Antibody Reactions						
Course Code	MİK542		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 give information about antigen-antibody reactions.						
Course Content	Structure and types of antigen and antibodies; the mechanism of antigen-antibody binding (primary, secondary binding); serological techniques to measure humoral immunity.						
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	40
Quiz	1	20
Assignment	1	20

Recommended or Required Reading

1	İmmunoloji
2	Veterinary Immunology: An Introduction, 7º Edition
3	Handbook of Vertebrate Immunology
4	Clinical Veterinary Microbiology

Week	Weekly Detailed Course Contents	
1	Theoretical	Types and structures of antibody and antigens
2	Theoretical	Types and structures of antibody and antigens
3	Theoretical	Types and structures of antibody and antigens
4	Theoretical	Binding mechanisms of antigens and antibodies
5	Theoretical	Binding mechanisms of antigens and antibodies
6	Theoretical	Binding mechanisms of antigens and antibodies
7	Theoretical	Binding mechanisms of antigens and antibodies
8	Intermediate Exam	Midterm Examination
9	Theoretical	Serological techniques used for measuring humoral immunity
10	Theoretical	Serological techniques used for measuring humoral immunity
11	Theoretical	Serological techniques used for measuring humoral immunity
12	Theoretical	Serological techniques used for measuring humoral immunity
13	Theoretical	Serological techniques used for measuring humoral immunity
14	Theoretical	Serological techniques used for measuring humoral immunity
15	Theoretical	Discussion

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Assignment	1	5	1	6
Laboratory	1	0	1	1
Quiz	1	0	1	1
Midterm Examination	1	0	1	1

Final Examination	1	2	1	3
			Total Workload (Hours)	26
		[Total Workload (Hours) / 25*] = **ECTS**		1

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	1. To be able to define antigen-antibody reactions
2	2. To be able to name primary and secondary binding tests
3	3. To be able to use the necessary information
4	To know antigens and their properties.
5	To know the antibodies and their properties.

Programme Outcomes *(Microbiology (Veterinary Medicine) Master)*

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
6	Department has the ability to donate theoretical and practical knowledge about postgraduate students in the are of microbiology.
7	Graduate students has the ability to perform 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	4	5	5	5
P2	5	4	5	5	5
P3	4	4	5	5	4
P4	4	5	4	4	5
P5	4	4	4	4	3
P6	5	5	5	5	5
P7	3	3	5	5	5