



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

Course Title	Cells Take a Role in Immun Reactions and Their Functions								
Course Code	MİK537	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	5	Workload	130 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	The objective of this course is to give information about cells that take a role in immune reactions and their functions.								
Course Content	The organs that take role in immune reaction and their functions (bone marrow, thymus, bursa fabricius, lymph nodes, spleen and others). The classification of cells that take a role in immune reactions and their functions.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, 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

Week	Weekly Detailed Course Contents	
1	Theoretical	Cells that take a role in immune reactions and their functions
2	Theoretical	Cells that take a role in immune reactions and their functions
3	Theoretical	Cells that take a role in immune reactions and their functions
4	Theoretical	Cells that take a role in immune reactions and their functions
5	Theoretical	Cells that take a role in immune reactions and their functions
6	Theoretical	Cells take a role in immun reactions and their functions
7	Theoretical	Cells that take a role in immune reactions and their functions
8	Intermediate Exam	Midterm Examination
9	Theoretical	Classification of cells that take a role in immune reactions and their functions
10	Theoretical	Classification of cells that take a role in immune reactions and their functions
11	Theoretical	Classification of cells that take a role in immune reactions and their functions
12	Theoretical	Classification of cells that take a role in immune reactions and their functions
13	Theoretical	Classification of cells that take a role in immune reactions and their functions
14	Theoretical	Classification of cells that take a role in immune reactions and their functions
15	Theoretical	Discussion

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	1	0	2	2
Laboratory	14	0	0.5	7
Reading	2	0	25	50
Quiz	1	2	1	3
Midterm Examination	1	5	1	6



Final Examination	1	5	1	6
Total Workload (Hours)				130
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	1. To be able to name cells that take a role in immune reactions and their functions
2	2. To be able to explain the roles of bone marrow, thymus, bursa fabricius, lymph nodes, and spleen
3	3. To be able to classify cells that take a role in immune reactions and their functions
4	4. To be able to use the necessary information
5	To know the mechanism of immune reaction.

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

