



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

Course Title	Poultry Immunology								
Course Code	MİK545	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 poultry immunology.								
Course Content	The roots of immune system cell population, development of poultry immune system cell populations and immunological functions in poultry; the structures of primary and secondary lymphoid organs, their localization and functions; tissue interaction systems; humoral and cellular immune response; immunological mechanisms against bacterial, viral, fungal, parasitic and tumoral diseases in poultry.								
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	Handbook of Vertebrate Immunology
2	Veterinary Immunology
3	İmmunoloji

Week	Weekly Detailed Course Contents	
1	Theoretical	The roots of immune system cell population
2	Theoretical	Development of poultry immune system cell populations
3	Theoretical	Structures of poultry immune system cell populations
4	Theoretical	Functions of poultry immune system cell populations
5	Theoretical	Structures of primary and secondary lymphoid organs, their localization and functions;
6	Theoretical	Localisation of primary and secondary lymphoid organs found in poultry
7	Theoretical	Functions of primary and secondary lymphoid organs found in poultry
8	Intermediate Exam	Midterm Examination
9	Theoretical	Histocompatibility systems of poultry
10	Theoretical	Humoral and cellular immune response of poultry
11	Theoretical	Immunity mechanisms that poultry use to react to bacterial diseases
12	Theoretical	Immunity mechanisms that poultry use to react to viral diseases
13	Theoretical	Immunity mechanisms that poultry use to react to fungal diseases
14	Theoretical	Immunity mechanisms that poultry use to react to parasitary and tumoral diseases.
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 poultry immunology
2	2. To be able to name primary and secondary lymphoid organs found in poultry.
3	4. To be able to name immunity mechanisms that poultry use to react to bacterial, viral, fungal, parasitary and tumoral diseases
4	5. To be able to use the necessary information.
5	To know bacterial diseases in poultry.

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

