



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

Course Title	Laboratory Diagnosis of Mastitis								
Course Code	MİK547	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	4	Workload	104 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	The objective of this course is to give information about laboratory diagnosis of mastitis.								
Course Content	General characteristics of specific mastitis agents which include Staphylococcus, Streptococcus and Coliform group microorganisms; morphological, cultural, physiological, biological, biochemistry, and serological tests for the identification of mastitis.								
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	2	20

Recommended or Required Reading

1	Koneman's Color Atlas and Textbook of Diagnostic Microbiology
2	Bergey's manual of systematic bacteriology
3	Mastitis Control in Dairy Herds
4	Veterinary Microbiology
5	Temel Mikrobiyoloji
6	Veteriner Bakteriyoloji
7	İmmunoloji

Weekly Detailed Course Contents

Week	Weekly Detailed Course Contents	
1	Theoretical	General characteristics Staphylococcus
2	Theoretical	General characteristics of Streptococcus
3	Theoretical	General characteristics of Coliform group microorganisms
4	Theoretical	Morphological tests used for mastitis diagnosis
5	Theoretical	Morphological tests used for mastitis diagnosis
6	Theoretical	Cultural tests used for mastitis diagnosis
7	Theoretical	Cultural tests used for mastitis diagnosis
8	Intermediate Exam	Midterm Examination
9	Theoretical	Physiological tests used for mastitis diagnosis
10	Theoretical	Biological tests used for mastitis diagnosis
11	Theoretical	Biological tests used for mastitis diagnosis
12	Theoretical	Biochemical tests used for mastitis diagnosis
13	Theoretical	Biochemical tests used for mastitis diagnosis
14	Theoretical	Serological tests used for mastitis diagnosis
15	Theoretical	Discussion

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28



Assignment	2	8	1	18
Quiz	2	8	1	18
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
Total Workload (Hours)				104
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. To be able to define laboratory diagnosis of mastitis
2	2. To be able to name biological characteristics of specific mastitis agents which include Staphylococcus, Streptococcus
3	3. To be able to classify morphological, cultural, physiological, biological, biochemistriycal and serological tests used for mastitis diagnosis
4	4. To be able to use the necessary information
5	To be able to perform the antibiogram of mastitis agents.

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

