



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

Course Title	Anaerobic Bacteria and Infections								
Course Code	MİK534	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	4	Workload	103 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The objective of this course is to give information about anaerobic bacteria.								
Course Content	The classification of anaerobic bacteria. The production of anaerobic bacteria. Anaerobic gram negative non-sporing rods and infections. Anaerobic gram positive non-sporing rods and infections. Anaerobic cocci and their infections. Clostridium and their infections. Antimicrobial susceptibility tests of anaerobic bacteria.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study								
Name of Lecturer(s)	Assoc. Prof. Göksel ERBAŞ, Prof. Şükrü KIRKAN								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	20
Final Examination	1	40
Quiz	2	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	Battling Resistance to Antibiotics and Pesticides: An Economic Approach
4	Veteriner Bakteriyoloji

Week	Weekly Detailed Course Contents	
1	Theoretical	Classification of anaerobic bacteria
2	Theoretical	Classification of anaerobic bacteria
3	Theoretical	Production of anaerobic bacteria
4	Theoretical	Production of anaerobic bacteria
5	Theoretical	Anaerobic gram negative non-sporing bacilli and their infections
6	Theoretical	Anaerobic gram negative non-sporing bacilli and their infections
7	Theoretical	Anaerobic gram negative non-sporing bacilli and their infections
8	Intermediate Exam	Midterm Examination
9	Theoretical	Anaerobic gram negative non-sporing bacilli and their infections
10	Theoretical	Anaerobic gram negative non-sporing bacilli and their infections
11	Theoretical	Anaerobic cocci and their infections
12	Theoretical	Clostridi and their infections
13	Theoretical	Clostridi and their infections
14	Theoretical	Antibiotic susceptibilities of anaerobic bacteria
15	Theoretical	Discussion

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	4	1	10
Laboratory	14	0	2	28
Quiz	2	8	1	18
Midterm Examination	1	8	2	10



Final Examination	1	8	1	9
Total Workload (Hours)				103
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. To be able to define anaerobic bacteria
2	2. To be able to explain antibiotic susceptibility of anaerobic bacteria
3	To be able to use the necessary information.
4	To know the diagnosis of infections made by aerobic bacteria.
5	To know the reproductive characteristics of aerobic bacteria.

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

