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

Course Title	Pathogenesis of Bacterial Infections								
Course Code	MİK541		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit	3	Workload	72 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The objective of this course is to give information about pathogenesis of bacterial infections.								
Course Content	Pathogenesis of Staphylococcus, Streptococcus, Bacillus anthracis, Mycobacterium, Corynebacterium, Listeria, Clostridium, Nocardia, Dermatophilus, Salmonella, Escherichia coli, Brucella, Pseudomonas, Campylobacter.								
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	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	Microbial Zoonoses and Sapronoses
4	Veterinary Microbiology and Microbial Disease
5	Clinical Veterinary Microbiology
6	Veteriner Bakteriyoloji

Week	Weekly Detailed Course Contents	
1	Theoretical	Pathogenesis of Staphylococci sp.
2	Theoretical	Pathogenesis of Streptococcus sp.
3	Theoretical	Pathogenesis of Bacillus anthracis
4	Theoretical	Pathogenesis of Bacillus anthracis
5	Theoretical	Pathogenesis of Mycobacterium sp
6	Theoretical	Pathogenesis of Corynebacterium sp.
7	Theoretical	Pathogenesis of Listeria sp.
8	Intermediate Exam	Midterm Examination
9	Theoretical	Pathogenesis of Clostridium sp.
10	Theoretical	Pathogenesis of Nocardia sp.
11	Theoretical	Pathogenesis of Dermatophilus sp.
12	Theoretical	Pathogenesis of Salmonella sp.
13	Theoretical	Pathogenesis of Escherichia coli, Brucella sp.
14	Theoretical	Pathogenesis of Pseudomonas, Campylobacter sp.
15	Theoretical	Discussion

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	1	8	2	10
Quiz	1	9	1	10
Midterm Examination	1	10	2	12

Final Examination	1	10	2	12
			Total Workload (Hours)	72
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	1. To be able to define pathogenesis of bacterial infections
2	2. To be able to define pathogenesis of Staphylococcus, Streptococcus, Bacillus anthracis, Mycobacterium sp.
3	3. To be able to define pathogenesis of Corynebacterium, Listeria, Clostridium, Nocardia, Dermatophilus, Salmonella sp
4	4. To be able to define pathogenesis of Escherichia coli, Brucella sp.
5	5. To be able to define pathogenesis of Pseudomonas, Campylobacter sp.
6	6. To be able to use the necessary information

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	L6
P1	5	5	5	5	5	5
P2	5	5	5	5	5	5
P3	4	4	4	4	4	4
P4	5	5	4	5	5	5
P5	5	5	3	3	4	4