

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

ourse Title Resistance to Antibiotics and Antibiogram Tests								
Course Code	MİK527		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 5	Workload	125 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	The objective	of this course	is to give info	ormation al	bout antibiotic	susceptibility	tests.	
	Determination of invitro infective agent sensitivity to antibiotics using dilution and no disc diffusion (dry and wet) techniques. Preparation of bacterial culture to be tested, choosing discs and determination of bacterial inhibition zones using antibiotic sensitivity tests following reproduction. Bacterial resistance to antibiotics. Application techniques of Kirby Bauer Disc diffusion method.							
Work Placement N/A								
Planned Learning Activities and Teaching Methods			Explanation Study	(Presentat	tion), Experime	ent, Demons	tration, Discussior	n, Case
Name of Lecturer(s) Lec. Hafize Tuğba YÜKSEL			DOLGUN					

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination	1	20					
Final Examination	1	60					
Assignment	1	20					

Reco	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	Handbook of Microbiological Media, 4º Edition				
5	Temel Mikrobiyoloji				

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Dilution method
2	Theoretical	Disc diffusion method
3	Theoretical	Preparing bacterial culture for test
4	Theoretical	Preparing bacterial culture for test
5	Theoretical	Choosing antibiotic disc
6	Theoretical	Choosing antibiotic disc
7	Theoretical	Evaluation of zone diameter
8	Intermediate Exam	Midterm Examination
9	Theoretical	Evaluation of zone diameter
10	Theoretical	Bacterial resistance to antibiotics
11	Theoretical	Bacterial resistance to antibiotics
12	Theoretical	Application techniques of Kirby Bauer disc diffusion method
13	Theoretical	Application techniques of Kirby Bauer disc diffusion method
14	Theoretical	Application techniques of Kirby Bauer disc diffusion method
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	0	3	6			
Reading	2	0	25	50			
Quiz	1	1	1	2			
Midterm Examination	1	4	1	5			



Final Examination	1		5	1	6	
Total Workload (Hours)				125		
[Total Workload (Hours) / 25*] = ECTS				5		
*25 hour workload is accepted as 1 ECTS						

Learn	Learning Outcomes							
1	To be able to define antibiotic susceptibility tests							
2	2. To be able to prepare bacterial cultures for antibiotic susceptibil	ity tests						
3	3. To be able to use th necessary information							
4	Disc diffusion tests							
5	MIC tests							

Pro	Programme Outcomes (Microbiology (Veterinary Medicine) Master's Without Thesis)							
1	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	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	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	5	5	5
P2	5	5	5	5	5
P3	4	3	4	4	4
P4	3	4	5	5	5
P5	5	5	5	4	5

