

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Bacterial Virul	ence Factors							
Course Code		MİK549		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit 2		Workload	50 (Hours)	Theory		2	Practice	0	Laboratory	0
Objectives of t	he Course	The objective of this course is to give information about bacterial virulence factors.								
Course Content			tors; endo- an						spore and coagula d increasing of vir	
Work Placement		N/A								
Planned Learning Activities		and Teaching	Methods	Explan	ation (I	Presentat	tion), Demonst	ration, Discu	ssion, Case Study	/
Name of Lecturer(s)		Prof. Göksel E	ERBAŞ							

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	20				
Final Examination	1	20				
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 Concise Review of Veterinary Microbiology
- 4 Temel Mikrobiyoloji

Week	Weekly Detailed Cou	urse Contents					
1	Theoretical	Identification of virulance					
2	Theoretical	Virulance factors of bacteria					
3	Theoretical	Virulance factors of bacteria					
4	Theoretical	Capsule					
5	Theoretical	Fimbria, flagella					
6	Theoretical	Coagulase activity					
7	Theoretical	Enzymatic factors					
8	Theoretical	Discussion					
9	Theoretical	Exotoxins					
10	Theoretical	Endotoxins					
11	Theoretical	Antiphagocytic activity					
12	Theoretical	Reduction of virulance					
13	Theoretical	Increase of virulance					
14	Theoretical	Measurement of virulance					

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	2	28	
Assignment	2	1	1	4	
Quiz	2	1	1	4	
Midterm Examination	1	5	2	7	



Final Examination	1		5	2	7	
			To	tal Workload (Hours)	50	
			Total Workload (Hours) / 25*] = ECTS	2	
*25 hour workload is accepted as 1 ECTS						

Learn	ing Outcomes		
1 1. To be able to identify virulance			
2	2. To be able to name virulance factors of bacteria		
3	3. To be able to measure virulance		
4	4. To be able to use the necessary information		
5	To have information about virulence genes.		

Programme Outcomes (Microbiology (Veterinary Medicine) Master)								
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							
6	Department has the ability to donate theoretical and practical knowledge about postgraduate students in the are of microbiology.							

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

Graduate students has the ability to perform scientific researches.

	L1	L2	L3	L4	L5
P1	5	4	5	5	5
P2	5	4	5	5	5
P3	4	4	5	4	4
P4	5	5	4	5	4
P5	4	4	5	4	5
P6	5	3	4	5	4
P7	3	5	5	3	5

