

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Microbiological Stains and Special Staining Techniques							
Course Code MİK503 Couse Level		el	Second Cycle (Master's Degree)					
ECTS Credit 4	Workload	100 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course The objective of this course is to give information about different staining methods used in microbiology.							biology.	
Course Content The stains used in microbiology and their classification. The classification of staining methods. Grataining method, Tuberculose staining method, capsule staining method, Flagella staining method, staining method, staining method, spore staining method. The preperation of staining so					od, Lipid			
Work Placement N/A								
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study					
Name of Lecturer(s) Prof. Göksel ERBAŞ, Prof. Uğur PARIN								

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	20				
Final Examination	1	60				
Quiz	2	10				
Assignment	4	10				

Recommended or Required Reading

- 1 Koneman's Color Atlas and Textbook of Diagnostic Microbiology
- 2 Bergey's manual of systematic bacteriology
- 3 Collins and Lyne's Microbiological Methods 8th Edition
- 4 Temel Mikrobiyoloji

Week	Weekly Detailed Course Contents					
1	Theoretical	Staining species in microbiology				
2	Theoretical	Classification of staining species used in microbiology				
3	Theoretical	Classification of staining methods used in microbiology				
4	Theoretical	Classification of staining methods used in microbiology				
5	Theoretical	Gram's Staining method				
6	Theoretical	Gram's Staining method				
7	Theoretical	Tuberculosis staining methods				
8	Intermediate Exam	Midterm Examination				
9	Theoretical	Tuberculosis staining methods				
10	Theoretical	Capsule staining methods				
11	Theoretical	Flagella staining methods				
12	Theoretical	Lipid staining methods				
13	Theoretical	Spore staining methods				
14	Theoretical	Rickettsia staining methods. Staining solutions and their preparations				
15	Theoretical	Discussion				

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



Final Examination	1		1	1	2
			To	tal Workload (Hours)	100
			[Total Workload (Hours) / 25*] = ECTS	4
*25 hour workload is accepted as 1 ECTS					

Learning Outcomes							
1	To be able to list different staining methods used in microbiology						
2	2. To be able to classify staining methods						
3	3. To be able to prepare staining solutions						
4	4. To be able to use the necessary information						
5	Lecture						

Progr	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	5	5	5	5
P2	5	5	5	5	5
P3	4	5	5	4	4
P4	5	4	4	5	4
P5	4	5	4	4	4
P6	5	5	4	5	5
P7	3	4	5	3	4

