



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Development of Diagnosis Methods in Brucella Infections								
Course Code	MIK548		Course Level		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 development of diagnosis methods in Brucella infections.								
Course Content	Species that cause Brucellosis and their infections; staining methods used in laboratory diagnosis of brucella species; microbiological culture; biochemical and antigenic characteristics used in identification; Phage sensitivity; stain tolerance tests; serological tests								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study								
Name of Lecturer(s)	Prof. Uğur PARIN								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Assignment	2	20
Quiz	2	20
Midterm Examination	1	20
Final Examination	1	40

Recommended or Required Reading	
1	Koneman's Color Atlas and Textbook of Diagnostic Microbiology
2	Handbook of Microbiological Media, 4 ^o Edition
3	Veterinary Vaccines and Diagnostics, Volume 41
4	Veterinary Immunology: An Introduction, 7 ^o Edition
5	Veteriner Bakteriyoloji
6	İmmunoloji

Week	Weekly Detailed Course Contents & Teaching Methods	
1	Theoretical & Practice	Species that cause Brucellosis and their infections
2	Theoretical & Practice	Species that cause Brucellosis and their infections
3	Theoretical & Practice	Staining methods used for diagnosis of Brucella infections
4	Theoretical & Practice	Staining methods used for diagnosis of Brucella infections
5	Theoretical & Practice	Culture media used for diagnosis of Brucella infections
6	Theoretical & Practice	Culture techniques used for diagnosis of Brucella infections
7	Theoretical & Practice	Biochemical characteristics used for identification
8	Theoretical & Practice	Discussion
9	Theoretical & Practice	Antigenic characteristics used for identification
10	Theoretical & Practice	Antigenic characteristics used for identification
11	Theoretical & Practice	Phage sensitivity tests used for identification
12	Theoretical & Practice	Staining tolerance tests used for identification
13	Theoretical & Practice	Serological tests used for identification
14	Theoretical & Practice	Serological tests used for identification

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	2	5	1	12
Laboratory	14	0	0.5	7
Quiz	2	5	1	12
Midterm Examination	1	5	1	6



Final Examination	1	5	2	7
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. To be able to describe the development of diagnosis methods in Brucella infections
2	2. To be able to list staining methods used for diagnosis methods in Brucella infections
3	3. To be able to apply serological methods in Brucella infections
4	4. To be able to use the necessary information
5	To be able to laboratory diagnosis of Brucella species.

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.
7	Graduate students has the ability to perform 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	4	5	4	4	4
P2	4	4	4	4	5
P3	5	5	4	4	4
P4	4	4	5	5	4
P5	4	4	4	4	4
P6	4	4	4	4	5
P7	4	5	4	5	4

