



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Microbiological Counting Techniques							
Course Code		MİK532		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	125 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The objective of this course is to give information about microbiological counting techniques.							
Course Content		The classification of counting methods of bacteria. Direct and indirect methods. Culture methods. The evaluation of the data.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

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	The classification of counting methods of bacteria.
2	Theoretical	The classification of counting methods of bacteria.
3	Theoretical	The classification of counting methods of bacteria.
4	Theoretical	The classification of counting methods of bacteria.
5	Theoretical	Direct methods
6	Theoretical	Direct methods
7	Theoretical	Indirect methods
8	Intermediate Exam	Midterm Examination
9	Theoretical	Indirect methods
10	Theoretical	Culture methods
11	Theoretical	Culture methods
12	Theoretical	Culture methods
13	Theoretical	Evaluation of the data
14	Theoretical	Evaluation of the data
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	5	2	14
Reading	1	0	25	25
Quiz	2	5	1	12
Midterm Examination	1	15	1	16



Final Examination	1	1	1	2
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. To be able to list microbiological counting techniques
2	To be able to classify microbiological counting techniques
3	To be able to evaluate counting results
4	To be able to know laboratory technics
5	To be able to use technics

Programme Outcomes (Microbiology (Veterinary Medicine) 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
P1	5	4	4	4	5
P2	5	4	4	4	5
P3	4	4	5	4	4
P4	5	5	4	5	5
P5	5	4	5	4	5

