



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Microbiological Counting Techniques								
Course Code	MIK532		Course 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 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 & Teaching Methods

Week	Weekly Detailed Course Contents & Teaching Methods
1	Theoretical & Practice The classification of counting methods of bacteria.
2	Theoretical & Practice The classification of counting methods of bacteria.
3	Theoretical & Practice The classification of counting methods of bacteria.
4	Theoretical & Practice The classification of counting methods of bacteria.
5	Theoretical & Practice Direct methods
6	Theoretical & Practice Direct methods
7	Theoretical & Practice Indirect methods
8	Theoretical & Practice Discussion
9	Theoretical & Practice Indirect methods
10	Theoretical & Practice Culture methods
11	Theoretical & Practice Culture methods
12	Theoretical & Practice Culture methods
13	Theoretical & Practice Evaluation of the data
14	Theoretical & Practice Evaluation of the data

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)

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

