



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Microbiota and Microbiome								
Course Code	MIK667		Course Level		Third Cycle (Doctorate Degree)				
ECTS Credit	4	Workload	99 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The objective of this course is to give information about microbiota and microbiome								
Course Content	Microbiota is a fundamental part of body as important as other organs. It is critical to know the importance of microbiota together with genetically-defined microbiome to establish the healthy state. For this reason, this course contains the fundamental concepts of microbiota and microbiome; microbial groups within microbiota; microbiotas of various animal groups, humans and different body parts; relationship of microbiota with immunity, nutrition and diseases; and determination and evaluation of functional microbiota.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study								
Name of Lecturer(s)	Prof. Serap SAVAŞAN								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	The Gut Microbiome
2	Lecture notes
3	Microbiome

Week	Weekly Detailed Course Contents & Teaching Methods	
1	Theoretical	From flora to microbiome; from past to present
2	Theoretical	Fundamental cocepts of microbiota and microbiome
3	Theoretical	Group of microorganism building up the microbiota
4	Theoretical	Microbiota in various body systems
5	Theoretical	Mammalian microbiota
6	Theoretical	Microbiota in humans and primates
7	Theoretical	Microbiota in birds and fishes
8	Theoretical	Determination of microbiota and microbiome, evaluation
9	Theoretical	Microbiota-disease interactions
10	Theoretical	Microbiota in infections
11	Theoretical	Microbiota and immunity
12	Theoretical	Microbiota and nutrition
13	Theoretical	Functional microbiota
14	Theoretical	Gut microbita

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	4	2	1	12
Reading	4	2	2	16
Midterm Examination	1	5	1	6
Final Examination	1	8	1	9
Total Workload (Hours)				99
[Total Workload (Hours) / 25*] = ECTS				4

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	1. To be able to recognize the microorganisms in microbiota
2	2. To be able to identify microbiotas in animal species body systems
3	3. To be able to establish association between microbiota and diseases
4	4. To be able to recognize and evaluate the functional microbiota
5	5. To be able to answer the questions about the topic

**Programme Outcomes (Microbiology (Veterinary Medicine) Doctorate)**

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	3	4	5	4
P2	4	5	5	5	3
P3	5	2	3	3	4
P4	4	4	5	4	5
P5	5	4	4	4	5
P6	4	5	4	5	4
P7	4	2	5	4	4

