

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Environmental Microbiology		·							
Course Code		MİK530 C		Couse Le	evel	Second Cycle (Master's Degree)			
ECTS Credit 3 Workload 79 (Hours)		Theory	2	Practice	0	Laboratory	0		
Objectives of the	ne Course	The objective	of this course	is to give	information a	bout special la	boratory ap	plications.	
spo etc infe		sporophyte mi etc). Transmis	icroorganisms sion of infecti air and water.	in soil. Tr ons with c Hygiene c	ansmission o changing clima of air, water a	f infections in o ax and geograp nd environmer	closed enviro phical featur nt. Precautio	 The resilience of conments (stables a es. Transmission ns to be taken in of nated material. 	and pens of
Work Placement N/A									
Planned Learning Activities and Teaching Methods		Explanat	ion (Presenta	tion), Demonst	tration, Disc	ussion, Case Stud	ly		
Name of Lecturer(s) Prof. Süheyla TÜRKYILMA		Z							

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

Recommended or Required Reading

1	Koneman's Color Atlas and Textbook of Diagnostic Microbiology
2	Bergey's manual of systematic bacteriology
3	Encyclopedia of Grain Science - Vol 1, 2 y 3
4	Food Security and Soil Quality (Advances in Soil Science)
5	Temel Mikrobiyoloji
6	Water Quality - Guidelines, Standards and Health

Week	Weekly Detailed Cours	se Contents
1	Theoretical	Transmission of infectious diseases in soil (meadows and pasturelands etc.)
2	Theoretical	Transmission of infectious diseases in soil (meadows and pasturelands etc.)
3	Theoretical	Transmission of infections in closed environments (stables and pens etc).
4	Theoretical	Transmission of infections in closed environments (stables and pens etc).
5	Theoretical	Transmission of infectious diseases according to climate conditions
6	Theoretical	Transmission of infectious diseases according to climate conditions
7	Theoretical	Transmission of infectious diseases according to climate conditions
8	Intermediate Exam	Midterm Examination
9	Theoretical	Transmission of infectious diseases according to geographical features
10	Theoretical	Transmission of infectious diseases according to geographical features
11	Theoretical	Transmission of infectious diseases with air and water
12	Theoretical	Transmission of infectious diseases with air and water
13	Theoretical	Precautions to be taken in order to prevent microbial environmental pollution.
14	Theoretical	Destruction tehniques of contaminated material
15	Theoretical	Discussion

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	1	2	6
Laboratory	14	0	2	28
Quiz	1	4	1	5



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Midterm Examination	1	4	1	5		
Final Examination	1	6	1	7		
Total Workload (Hours)						
[Total Workload (Hours) / 25*] = ECTS 3						
*25 hour workload is accepted as 1 ECTS						

 1. To be able to define environmental microbiology 2. To be able to explain the link between climate conditions and transmission of infectious diseases 3. To be able to desribe prevention of pollution 4. To be able to use the necessary information 5 interrelation with microbiology and environment 	Learr	ning Outcomes		
 3 3. To be able to desribe prevention of pollution 4 4. To be able to use the necessary information 	1	1. To be able to define environmental microbiology		
4 4. To be able to use the necessary information	2	2. To be able to explain the link between climate cond	itions	and transmission of infectious diseases
	3	3. To be able to desribe prevention of pollution		
5 interrelation with microbiology and enviroment	4	4. To be able to use the necessary information		
	5	interrelation with microbiology and enviroment		

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