

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Bacterial Dise	ases in the Fi	sh					
Course Code		MİK538		Couse Le	evel	Second Cycle	e (Master's D	Degree)	
ECTS Credit	5	Workload	130 <i>(Hours)</i>	Theory	2	Practice	2	Laboratory	0
Objectives of the	ne Course	The objective	of this course	is to give	information a	bout bacterial	diseases of	fish.	
Course Content		Bacteriologica Technical met pathogenic fis	thods, Prepera	dentification of me	on of pathoge edia for cultur	enic fish bacteri e, Techniques	ia. Biochem for the mole	ical identification te ecular identification	ests, of
Work Placement N/A									
Planned Learning Activities and Teaching Methods			Explanat Study	ion (Presenta	tion), Experime	ent, Demons	stration, Discussior	n, Case	
Name of Lecturer(s)									

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

Recommended or Required Reading

1	Koneman's Color Atlas and Textbook of Diagnostic Microbiology
2	Bergey's manual of systematic bacteriology
3	Bacterial Fish Pathogens: Disease of Farmed and Wild Fish
4	Veteriner Bakteriyoloji

Week	Weekly Detailed Course Contents			
1	Theoretical	Culture and identification of pathogenic fish bacteria		
2	Theoretical	Culture and identification of pathogenic fish bacteria		
3	Theoretical	Culture and identification of pathogenic fish bacteria		
4	Theoretical	Biochemical identification tests		
5	Theoretical	Biochemical identification tests		
6	Theoretical	Technical methods		
7	Theoretical	Technical methods		
8	Intermediate Exam	Midterm Examination		
9	Theoretical	Preparing media for culture		
10	Theoretical	Preparing media for culture		
11	Theoretical	Molecular identification of pathogenic fish bacteria		
12	Theoretical	Molecular identification of pathogenic fish bacteria		
13	Theoretical	Molecular identification of pathogenic fish bacteria		
14	Theoretical	Molecular identification of pathogenic fish bacteria		
15	Theoretical	Discussion		

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	1	1	1	2
Laboratory	14	0	0.5	7
Reading	2	0	25	50
Quiz	1	1	1	2



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Midterm Examination	1	5	1	6	
Final Examination	1	6	1	7	
Total Workload (Hours)				130	
[Total Workload (Hours) / 25*] = ECTS				5	
*25 hour workload is accepted as 1 ECTS					

Learr	Irning Outcomes	
1	1. To be able to define bacterial diseases of fish	
2	2. Having information about culture and identification of pathogen fi	sh bacteria
3	3. Providing ability to evaluate these informations	
4	To know bacterial fish vaccines.	
5	Diagnosis of bacterial fish diseases.	

Programme Outcomes (Microbiology (Veterinary Medicine) Master)

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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	5	5	
P2	5	4	5	5	5	
P3	4	4	4	5	4	1
P4	4	5	4	4	5	1
P5	5	4	4	4	3	1
P6	5	4	5	3	5	
P7	5	5	3	5	5]