

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Special Laboratory Applicat		tions							
Course Code		MİK529		Couse 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 special laboratory applications.							
Course Content		test), hemaglu immunoelectr	utination, hem ophoresis, zo scence). Imm	aglutinatio ne electrop unofleuros	n inhibition, ir horesis), imr	mmunodiffusior munohystocher	n (Agar Gel nical techni	FT (Complement fix Precipitation, ques (direct and in egionella, Rabies,	
Work Placement		N/A							
Planned Learning Activities and Teaching Methods			Explanati Study	on (Presenta	tion), Experime	ent, Demon	stration, Discussion	n, Case	
Name of Lecture	er(s)								

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination	1	20					
Final Examination	1	40					
Quiz	2	10					
Assignment	2	10					

Reco	mmended or Required Reading
1	Koneman's Color Atlas and Textbook of Diagnostic Microbiology
2	Bergey's manual of systematic bacteriology
3	Handbook of Vertebrate Immunology
4	Veterinary Laboratory Medicine
5	The ELISA Guidebook
6	Temel Mikrobiyoloji
7	İmmunoloji

Week	Weekly Detailed Course Contents						
1	Theoretical	Enzyme Linked Immunosorbent Assay test					
2	Theoretical	Radio Immuno Assay test					
3	Theoretical	Complement fixation test					
4	Theoretical	Hemaglutination test					
5	Theoretical	Hemaglutination inhibition test					
6	Theoretical	Agar-gel precipitation test					
7	Theoretical	Immunoelectrophoresis					
8	Intermediate Exam	Midterm Examination					
9	Theoretical	Direct and indirect immunoflorescanse test					
10	Theoretical	Immunoflorescanse techniques					
11	Theoretical	Diagnosing Listeria infections					
12	Theoretical	Diagnosing Legionella infections					
13	Theoretical	Diagnosing Rabies infections					
14	Theoretical	Diagnosing Streptococcus and Chlamydia infections					
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		4	2	12
Laboratory	14		0	1	14
Reading	1		0	25	25
Quiz	2		1	1	4
Midterm Examination	1		5	1	6
Final Examination	1		7	1	8
	125				
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learning Outcomes

- 1 1. To be able to define special laboratory applications
- 2 2. To be able to define ELISA, RIA and CF tests
- 3. To be able to define hemagglutination, hemagglutination inhibition, immunodiffusion tests
- 4. To be able to name immunohistochemical techniques
- 5. To be able to define the diagnoses of Listeria, Legionella, Rabies, Streptococcus infections
- 6 6. To be able to use the necessary information

Programme Outcomes (Microbiology (Veterinary Medicine) Master)

- Department has the ability to identify and apply information about bacteriology, virology, mycology and has the ability to recognize diseases about veterinary medicine.
- 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	L6
P1	5	5	5	5	5	5
P2	5	4	5	5	4	5
P3	4	4	4	4	4	4
P4	4	4	4	4	3	5
P5	5	5	4	5	5	5
P6	4	4	5	4	5	4
P7	5	5	4	5	4	5

