



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Laboratory Practices On Experimental Animals							
Course Code		MİK522		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	1	Workload	26 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		The objective of this course is to give information about experimental animals.							
Course Content		Anesthesia applications on experimental animals. Techniques for bloodletting: from tail, heart, retrobulber sinus, and vena saphena anterior. Decapitation method. Injections: subcutan, intraperitoneal, intravenous, oral, rectal, intravertebral, intracerebral, intradermal. Methods of inoculating pathogen bacteria to experimental animals. Isolation and identification of pathogen bacteria on experimental animals. Preparation of hyperimmune serum.							
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	20
Final Examination	1	60
Assignment	1	20

Recommended or Required Reading

1	Guide for the Care and Use of Laboratory Animals Eighth Edition
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Week	Weekly Detailed Course Contents	
1	Theoretical	Anesthesia applications on experimental animals
2	Theoretical	Bloodletting techniques
3	Theoretical	Bloodletting from tail and heart
4	Theoretical	Bloodletting from retrobulber venous sinus and vena saphena anterior
5	Theoretical	Decapitization methods
6	Theoretical	Injections
7	Theoretical	Subcutan and intraperitoneal injection
8	Intermediate Exam	Midterm Examination
9	Theoretical	Intravenous, oral and rectal injection
10	Theoretical	Intravertebral, intracerebral and intradermal injection
11	Theoretical	Methods of inoculating pathogen bacteria to experimental animals
12	Theoretical	Methods of inoculating pathogen bacteria to experimental animals
13	Theoretical	Bacterial isolation and identification on experimental animals
14	Theoretical	Hyperimmune serum preparation
15	Theoretical	Discussion

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Assignment	1	0	1	1
Laboratory	14	0	0.5	7
Midterm Examination	1	1	1	2
Final Examination	1	1	1	2
Total Workload (Hours)				26
[Total Workload (Hours) / 25*] = ECTS				1

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	1. To be able to list anesthesia applications on experimental animals
2	2. To be able to describe and perform bloodletting from experimental animals
3	3. To be able to define bacterial isolation and identification on experimental animals
4	4. To be able to prepare hyperimmune serum
5	5. To be able to use the necessary information

Programme Outcomes (*Microbiology (Veterinary Medicine) Master's Without Thesis*)

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.

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	5	5	5	5	4
P3	5	5	4	5	5
P4	4	4	5	5	4
P5	5	5	5	4	5

