AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
VETERINARY MICROBIOLOGY
MICROBIOLOGY
MICROBIOLOGY (VETERINARY) MASTER'S WITHOUT THESIS
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 experimantal 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

Week	Weekly Detailed Course Contents	
1	Theoretical	Anesthesia applications on experimantal 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 experimantal animals
12	Theoretical	Methods of inoculating pathogen bacteria to experimantal animals
13	Theoretical	Bacterial isolation and identification on experimantal animals
14	Theoretical	Hyperimmune serum preparetion
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 experimantal animals
2	2. To be able to describe and perform bloodletting from experimantal animals
3	3. To be ble to define bacterial isolation and identification on experimantal animals
4	4. To be able to prepare hyperimmune serum
5	5. To be able to use the necessary information

Programme Outcomes *(Microbiology (Veterinary) 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