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

Course Title	Scientific Research Methods								
Course Code	MİK560		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit	2	Workload	52 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To reveal detailed scientific approaches about scientific research methods and to train qualified researcher candidates.								
Course Content	Scientific method in academic research, introduction to research. Definition of research problem, research design, questionnaire design, sampling methods, data collection methods. To give a correct reference. Examples of research on domestic and foreign libraries.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)	Assoc. Prof. Uğur PARIN								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Research Methods For Science
2	Scientific Methods

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Scientific Research Methods
2	Theoretical	Research process
3	Theoretical	Scientific Ethics
4	Theoretical	Benefiting from resources
5	Theoretical	Methods of citing
6	Theoretical	Methods of manuscript search: Internet
7	Theoretical	Methods of manuscript search: E-Library
8	Intermediate Exam	Midterm examination
9	Theoretical	Article Writing and Computer Technologies: Word Processors I
10	Theoretical	Article Writing and Computer Technologies: Word Processors II
11	Theoretical	Article Writing and Computer Technologies: Table preparation
12	Theoretical	Article Writing and Computer Technologies: Graphics and Figures
13	Theoretical	Scientific Research Presentation Techniques
14	Theoretical	Student presentations
15	Theoretical	Discussion

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0.5	1	21
Assignment	1	5	1	6
Reading	1	5	1	6
Individual Work	1	6	1	7
Midterm Examination	1	5	1	6

Final Examination	1	5	1	6
			Total Workload (Hours)	52
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To gain basic knowledge of scientific approaches in design research.
2	Interpret the scientific research techniques.
3	Use scientific research techniques.
4	Develop scientific research techniques.
5	Compare the techniques of scientific research.

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	5
P2	5	5	4	5	5
P3	4	4	5	5	4
P4	5	5	5	4	5
P5	4	3	5	5	3