AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Scientific Research Methods								
Course Code	VBY539		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Having Knowledge of Science and Scientific Methods								
Course Content	To create the necessary substructure about the notion related to science, scientific research process and the scientific activities to be applied in this process, and the methods to be used in making scientific studies into reports, projects, theses and articles.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation)								
Name of Lecturer(s)	Prof. Pınar Alkım ULUTAŞ								

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

Recommended or Required Reading	
1	Karasar N, Bilimsel Araştırma Yöntemi. Arıkan R, Araştırma Teknikleri ve Rapor Yazma. Dinler Z, Bilimsel Araştırma

Week	Weekly Detailed Course Contents	
1	Theoretical	Science and Scientific Research
2	Theoretical	Scientific Research Process and Research Methods
3	Theoretical	Experimental Research
4	Theoretical	Quantitative Research
5	Theoretical	Source Scanning
6	Theoretical	Establishing a model , İdentfying variables , Creating İstatistical hypothesis
7	Theoretical	Midterm
8	Theoretical	Sampling
9	Theoretical	Measuring and Scaling in Researches
10	Theoretical	Preparing Project
11	Theoretical	Gathering Data
12	Theoretical	Quantitative and Qualitative Analytic Methods
13	Theoretical	Analytics regarding examining diversity
14	Theoretical	SPSS applications
15	Theoretical	Scientific article
16	Theoretical	final exam (Final)

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	2	45
Midterm Examination	1	1	1	2
Final Examination	1	2	1	3
			Total Workload (Hours)	50
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Having Knowledge of Science and Scientific Methods
2	Having knowledge of Scientific Research Processes
3	Research Methods

4	To be able to express the ideas and the data related to the research topic in oral and written form
5	apply research methods and article writing techniques as a scientific report.

Programme Outcomes *(Biochemistry (Veterinary Medicine) Master)*	
1	To be able to tell and describe the interdisciplinary interaction with the associated fields.
2	To be able to express original ideas useing his/her higher education knowledge theoretically and practically information and to be able to creat original definations,products,methods improving and questioning these ideas.
3	To be able to manage a free research according to scientifical and metodological methods and be able to hypothetically and practically about his/her own field.
4	To be able to compose and interpret the information from different disciplines, and create solution suggestions and scientific information which can contribute to the solution process.
5	To be able to involves in professional organizations and institutions related with the educational background.
6	To be able to take responsibility for individual and group work, and do the assignments in line with the skills.
7	To be able to communicate with the professionals out of the field when it is necessary, and contribute to the solution as a team member.
8	To be able to tell about the production and publishing methods of scientific information.
9	To be able to design the source and the type of information that is needed related with the field and chooses the activities that s/he wants to participate, by using his/her critical thinking abilities that is developed in the education.
10	To be able to use technological devices both for professional and social purposes.
11	To be able to compose and interpret any kind of data related with the field (field observations, produced scientific information etc.) and analyzes and interprets the results according to the aims of the research.
12	To be able to define the environmental health rules and apply them for prevention.
13	To be able to apply the knowledge gained in professional level with the awareness of the needs of the region and the country, and develop a defense capability.
14	To be able to conceptualize the phenomena and the events related with the field; study scientific methods and techniques, interpret results; analyze and hypothesize methods in accordance with the results and design solution or treatment alternatives addressing the problems.
15	To be able to interpret the updates of information in the field by using all kinds of sources (scientific information, legislations etc.), and use when needed.

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
P3	5	5	5	5	5
P4	4	4	4	4	4
P8	5	5	5	5	5
P15	5	5	5	5	5