



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Scientific Research Methods							
Course Code		VHE539		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The objective of this course is to give information about Scientific Research Technics.							
Course Content		The course provides a guidance towards the practice of scientific thought accepted as a universally common language and looks into the criteria for scientific language and writing. It also introduces the principles used in productive work such as theses, reports and articles which require internationally common writing and expression techniques. It also aims at introducing the steps of carrying out research and help students gain the ability to write on an international level							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Final Examination	1	60
Seminar	1	20
Assignment	1	20

### Recommended or Required Reading

1	Robert A. Day, Bilimsel Makale Nasıl Yazılır, Nasıl Yayınlanır Tübitak Yayınları 1996
2	Rauf Arıkan, Araştırma Teknikleri ve Rapor Hazırlama, Ankara 2005
3	Niyazi Karasar, Bilimsel Araştırma Yöntemi, Nobel Yayın Dağıtım 2012
4	Durmuş Ekiz, Bilimsel Araştırma Yöntemleri, Anı Yayıncılık 2009

Week	Weekly Detailed Course Contents	
1	Theoretical	Basic notion, principles and approaches
2	Theoretical	Source of information; science and scientific method
3	Theoretical	research and research education
4	Theoretical	Research procedure and techniques /Techniques to write a report
5	Theoretical	Quoting and bibliography
6	Theoretical	Quoting and bibliography
7	Theoretical	Research model
8	Theoretical	Midterm Examination
9	Theoretical	Objectives and Sub-Objectives; matter, assumptions, limitations and definitions
10	Theoretical	Population and sample
11	Theoretical	Data and data collecting techniques
12	Theoretical	Data processing and analysis
13	Theoretical	Results and their interpretation
14	Theoretical	Summary , verdict and recommendations; Preparing a sample report
15	Theoretical	Discussion

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	1	0	2	2
Individual Work	14	0	0.5	7
Midterm Examination	1	3	1	4



Final Examination	1	1	8	9
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	to be able to apply the procedures pertaining to scientific research method,
2	to be able to apply scientific writing techniques
3	to be able to identify publication types and evaluate them
4	to be able to do Internet, library and literature research
5	Use of scanned publications

### Programme Outcomes (Histology and Embryology (Veterinary Medicine) Master)

1	Gains expert knowledge on the function and basic histological features of cells, tissues and systems in animals
2	Gains expert knowledge on the stages of embryonal and fetal development in both mammals and birds
3	Comprehends and defines interactions among disciplines related to histology-embryology.
4	Knows national and international laws and regulations concerning histology and embryology.
5	Determines and uses laboratory equipment and consumables in a histology laboratory.
6	Forms ideas to solve complex problems using theoretical and practical information gained throughout the histology/embryology education.
7	Integrates and interprets information in the area of histology/embryology with information in different fields and, if the need arises, provides scientific information and solutions to solve problems.
8	Performs his/her expertise with the recognition of the rights and responsibilities obtained with the completion of the master of Science in histology/embryology.
9	Develop alternative strategies to solve national and international problems in the field of histology/embryology using expert knowledge and expertise in histology/embryology obtained during his/her training, solves them and evaluates the data. If the need arises, takes a part as a team member to solve problems outside his/her field.
10	Takes responsibility in individual and collective work and completes his/her duties. Takes professional and ethical responsibilities.
11	Comprehends methods associated with attainment and presentation of scientific information.
12	Evaluates his/her expert information gained during the master of Science critically and determines new information and sources of information and attends to activities to complement his/her educational deficiencies
13	For his/her professional development, evaluates and uses any available information and activity in his/her studies.
14	If the need arises, gives information and organizes activities to define a problem in his/her field of expertise.
15	Takes responsibilities in professional organizations and committees related to his/her field of expertise.
16	Relying on his/her professional skills and rights, he/she plans and realizes projects with the conciseness of social responsibility. He/she follows the developments in the world and is sensitive to events.
17	In order to maintain his/her professional development and to have social interactions, he/she uses at least one foreign language.
18	Uses advanced technological means that might be necessary for both professional applications and social interactions.
19	Reviews, evaluates and interprets any data (field observations, available scientific information etc.) towards a specific purpose. Develops and uses strategies in his/her field of expertise.
20	Applies and defines his/her expert knowledge with realizing the needs of the region and the country.

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4
P1	5	5	5	5
P2	2	2	2	2
P3	4	4	4	4
P5	4	4	4	4
P6	3	3	3	3
P7	4	4	4	4
P8	4	4	4	4
P10	4	4	4	4
P11	4	4	4	4
P12	4	4	4	4
P13	4	4	4	4



P19	4	4	4	4
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