



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Scientific Research Methods							
Course Code		VFT542		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	56 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Scientific research, publication, research, data collection and evaluation of data base research, thesis and article writing and posters giving information about the preparation and presentation.							
Course Content		What is scientific research and its features, and characteristics of scientific publications, scientific research, selection and planning, research planning, data collection and evaluation of scientific research, scientific research databases, databases, research, thesis writing rules and features, and characteristics of thesis writing rules preparing scientific papers and their properties, preparation and properties of scientific papers, posters, preparation and properties, preparation and properties of an oral presentation							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Problem Solving					
Name of Lecturer(s)		Prof. Ferda AKAR, Prof. Selim SEKKİN							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Veterinary Pharmacology and Therapeutics, 8th Edition, Jim E. Riviere (Editor), Mark G. Papich (Editor), 2009.
2	Modern Pharmacology, 6th Edition, Lippincott Williams and Wilkins, 2004 (Ed. C.R. Craig and R.E. Stitzel)
3	Basic and Clinical Pharmacology, 9th Edition, McGraw-Hill, New York, 2004 (Ed. B. Katzung)
4	Goodman and Gilman's The Pharmacological Basis of Therapeutics 11th Edition, McGraw-Hill, 2006 (Eds. Brunton, Lazo, Parker, Buxton and Blumenthal)
5	Lippincott's Illustrated Reviews: Pharmacology, 3rd Edition, Lippincott Williams and Wilkins, 2005 (Eds. Howard, Mycek, Harvey & Champe)
6	The Veterinary Formulary edited by Yolande Bishop. London Pharmaceutical Press in association with the British Veterinary Association 2001.
7	Pharmacology. Franklin A. Ahrens. Baltimore, Md. London Williams & Wilkins 1996.
8	The physiological basis of veterinary clinical pharmacology J. Desmond Baggot. Oxford Blackwell Science 2001.
9	Veterinary pharmacolgy and therapeutics edited by H. Richard Adams. Ames, Iowa Iwa State University Press 2001.
10	Veterinary Drug Therapy, 1994. Ths. B. Barragry.
11	Multiple choice questins in Clinical Pharmacology, 2001, Mant, Lewis and Ritter. Arnld.

Week	Weekly Detailed Course Contents	
1	Theoretical	What is scientific research and its properties
2	Theoretical	Scientific publications and features
3	Theoretical	Selection and planning of scientific research
4	Theoretical	Scientific research planning
5	Theoretical	Data collection and evaluation of scientific research
6	Theoretical	Scientific research databases
7	Theoretical	Research databases
8	Intermediate Exam	Mid-term exam
9	Theoretical	Thesis writing rules and specifications
10	Theoretical	Thesis writing rules and specifications
11	Theoretical	Preparation and properties of a scientific paper
12	Theoretical	Preparation and properties of a scientific paper
13	Theoretical	Poster preparation and properties
14	Theoretical	Preparation and properties of an oral presentation



15	Theoretical	Discussion
16	Final Exam	Final

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	1	42
Midterm Examination	1	4	2	6
Final Examination	1	6	2	8
Total Workload (Hours)				56
[Total Workload (Hours) / 25*] = <b>ECTS</b>				2

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	Scientific publication is general information about the research
2	Research studies will have information about the database
3	The thesis will have information on manuscript preparation and poster presentations
4	To learn knowledge and propose suggestions on the area
5	To find out and use resources about the profession in the area.

**Programme Outcomes** (*Veterinary Pharmacology and Toxicology Master's Without Thesis*)

1	to be able to comprehend expert knowledge on field of pharmacology and toxicology in veterinary medicine
2	to be able to define expert knowledge on interdisciplinary interaction in pharmacology and toxicology
3	to be able to formulate ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education
4	to be able to integrate and interpret information in the area of pharmacology and toxicology with information in different fields and, if the need arises, provides scientific information and solutions to solve problems.
5	to be able to develop and use strategies in his/her field of expertise in Master's Program of Pharmacology and Toxicolog
6	to be able to comprehend methods of obtained and submitted scientific knowledge
7	to be able to analyse current information related to his/her field of expertise (scientific information, procedures etc.) and use them when necessary.
8	to be able to apply technological tools in social relationships of vocational and professional environment
9	to be able to review, evaluate and interpret any data (field observations, available scientific information etc.) towards a specific purpose.
10	to be able to comprehend expert knowledge on the function and basic pharmacological features of pharmacology and sub-branches of science, relationship between the drug and poison, pharmacokinetic, effects of the drugs, the dose-intensity and dose-effect relationship.
11	to be able to identify expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning
12	to be able to define and use laboratory equipment in a pharmacology and toxicology laboratory.

**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	4	4	4		
P2	3	3			
P3	3	3		5	
P4				4	
P5	5	5			
P6					5
P7					4
P9				5	5
P10	5	5	5		

