



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Scientific Research Methods							
Course Code		VFT638		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	2	Workload	50 (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. Murat BOYACIOĞLU							

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	Hayes, WA (2007) Principles and Methods of Toxicology, 5th Edition, Taylor and Francis, London.

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 exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	8	2	1	24
Assignment	3	2	1	9
Midterm Examination	1	8	1	9



Final Examination	1	7	1	8
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				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 find out and use resources about the profession in the area.
5	To give lectures and/or presentations and discuss with professionals in the area.

Programme Outcomes (Pharmacology and Toxicology (Veterinary Medicine) Doctorate)

1	Gains expert knowledge on field of pharmacology and toxicology in veterinary medicine and, gains expert knowledge on interdisciplinary interaction in pharmacology and toxicology
2	To be equipped with the knowledge to develop original ideas about necessary issues in the field by using of both graduate and expertise levels knowledge, to be able to develop original definitions, products and diagnostic procedures, etc. via deepening and questioning these knowledge.
3	Develops and uses strategies in his/her field of expertise in PhD Program of Pharmacology and Toxicology
4	Reviews, evaluates and interprets any data (field observations, available scientific information etc.) towards a specific purpose.
5	Gains 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.
6	Gains expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning.
7	Can offer training to technical staff who will work in pharmacology and toxicology laboratory
8	Reach to competence to prepare courses at the undergraduate level
9	Determines and uses laboratory equipment and consumables in a pharmacology and toxicology laboratory.
10	To be able to plan an interdisciplinary project and build team for the known or new defined problems and to manage and complete such a project when necessary.
11	To share his/her knowledge in the field with others by attending at field-related or other congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions, etc., and to contribute to the solution in the team by establishing relations with the experts in different fields.
12	To contribute the scientific knowledge in the field via publications in national and international peer-reviewed scientific journals.
13	Takes roles in vocational organizations and institution.
14	Forms ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education.
15	To adopt lifelong learning as a principle and acknowledge that the information gained through research is the most valuable gain.
16	Knows and protects rights of ideas and industrial property (patent right)

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	4	5		
P2				4	
P3	4	4	5	4	
P5	5	5	5		
P7					4
P8	4	4	4		
P11					4
P12				4	
P13	5	4	5		
P14	4	4	4		4

