

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Analgesic Drugs								
Course Code		VFT679		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit	4	Workload	100 (Hours)	Theory	2	Practice	0	Laboratory	0	
Objectives of the Course		Teaching of the formation mechanism of pain and pain relief drugs.								
Course Content		Basic concepts related to pain, the pain and the effects of the classification of narcotic and non-narcotic pain reliever drugs, forms of action and clinical uses.					-narcotic			
Work Placement		N/A								
Planned Learning Activities		and Teaching	Methods	Explanation	on (Presenta	tion), Discussion	on, Individual	Study		
Name of Lecturer(s)										

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

Reco	mmended 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.					

Week	Weekly Detailed Cours	ekly Detailed Course Contents				
1	Theoretical	Occurrence of pain.				
2	Theoretical	Pain in the formation of local events				
3	Theoretical	Substances that are secreted in Pain				
4	Theoretical	Information about the salicylic acid derivatives				
5	Theoretical	Information about the propionic acid derivatives				
6	Theoretical	pyrazolone derivative				
7	Theoretical	Acidic acid derivatives				
8	Intermediate Exam	Midterm exam				
9	Theoretical	Nikotonik acid derivatives				
10	Theoretical	Oksikam derivatives				
11	Theoretical	Adrenergic receptor stimulants				
12	Theoretical	Gold Compounds				
13	Theoretical	Narcotic pain relievers				
14	Theoretical	Narcotic pain relievers antagonists				
15	Theoretical	discussion				
16	Final Exam	term exam				

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	3	2	70		
Assignment	1	5	1	6		
Midterm Examination	1	10	2	12		



Final Examination	1		10	2	12
			To	tal Workload (Hours)	100
		[Total Workload (Hours) / 25*] = ECTS	4
*25 hour workload is accepted as 1 ECTS					

Learn	ing Outcomes
1	Learns the formation mechanisms of pain.
2	Learn the mechanism of action of drugs for pain relief.
3	To obtain information on pain medications.
4	To find out and use resources about the profession in the area.

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

To give lectures and/or presentations and discuss with professionals in the area.

- Gains expert knowledge on field of pharmacology and toxicology in veterinary medicine and, gains expert knowledge on interdisciplinary interaction in pharmacology and toxicology
- 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.
- 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
- 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.
- 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.
- 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.
- Forms ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education.
- 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	3	4			
P2				5	
P3	4	4		5	
P5	5	5	5		
P8	4	4	4		5
P11					5
P12				5	
P13		4			
P14	4	4	4		5



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