



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Drugs of Chemotherapy, I (Basic Principles and Antibiotics)							
Course Code		VFT521		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	6	Workload	148 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To inform about the chemotherapeutics and detailed information is given about one of its components: antibiotics. To teach the effects, spectrum, inhibitoric power, mode of actions, resistance, mixtures, usage and classification of antibiotics.							
Course Content		Classification and basic principles of chemotherapeutics, beta lactam antibiotics, aminoglycosides, macrolides, lincosamides, polymixins, chloramphenicol, tetracyclines, nitrofuranes, flouroquinolones, imidazole compounds and sulfamycine antibiotics are examined.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Lec. Hande Sultan ŞAHİNER, Prof. Ferda AKAR							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Hayes, WA (2007) Principles and Methods of Toxicology, 5th Edition, Taylor and Francis, London
2	Klaassen, C. (2008) Casarett & Doull's Toxicology: The Basic Science of Poisons, 7th Edition, McGraw-Hill Companies, USA.
3	Hodgson, E (2010) A textbook of modern toxicology, 4th Edition, John Wiley and Sons, Inc., Hoboken, Canada.
4	Casarett & Doull's Toxicology - The Basic Science of Poison. McGraw-Hill Press
5	Gupta, R.C. Veterinary Toxicology - Basic and Clinical Principles. Academic Press

Week	Weekly Detailed Course Contents	
1	Theoretical	Chemotherapeutics
	Practice	Introduction, history, classification and side effects of chemotherapeutics
2	Theoretical	Antibiotics
	Practice	Activity, spectrum, inhibitoric power of antibiotics
3	Theoretical	Antibiotics
	Practice	Methods for determining the inhibitoric power of antibiotics
4	Theoretical	Antibiotics
	Practice	Mode of actions of antibiotics
5	Theoretical	Antibiotics
	Practice	Resistance phenomenon, types and importance of antibiotic resistance. Determination of antibiotic resistance.
6	Theoretical	Antibiotics
	Practice	Mixture of antibiotics. Determination of interactions among antibiotics.
7	Practice	Midterm exam
	Intermediate Exam	Midterm exam
8	Theoretical	Antibiotics
	Practice	Factors that affect antibiotic usage. Specific antibiotic usage fields.
9	Theoretical	Antibiotics
	Practice	Beta lactam antibiotics (penicillins)
10	Theoretical	Antibiotics
	Practice	Beta lactam antibiotics (cephalosporins and other beta lactams)
11	Theoretical	Antibiotics
	Practice	Aminoglycosides and macrolides
12	Theoretical	Antibiotics



12	Practice	Tetracyclines, phenicols, and lincosamides
13	Theoretical	Antibiotics
	Practice	Quinolones, nitrofurans, imidazoles and rifamicins
14	Theoretical	Antibiotics
	Practice	Sulphonamides and other antibiotics
15	Theoretical	Discussion
	Practice	Generally assessment
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	7	2	1	21
Seminar	3	3	2	15
Individual Work	8	3	1	32
Midterm Examination	1	10	2	12
Final Examination	1	10	2	12
Total Workload (Hours)				148
[Total Workload (Hours) / 25*] = ECTS				6

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Presentation of chemotherapeutics
2	To learn the sources of chemotherapeutics and to examine the involving problems as well as to be warned about their usages.
3	To examine the general specification of antibiotics
4	To acquire the general antibiotic usage and problem solving
5	Comparative learning of general antibiotic classes

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 Toxicology
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	3	3	5	4	5
P2	3	3	3	3	3
P3	4	4	4	4	4
P5	3	3	3	4	4
P6	5	5	5	5	5
P7	3	3	4	4	4



P9	3	3	4	4	4
P10	3	5	5	5	5
P11	2	2	5	2	2

