



NEAR EAST UNIVERSITY

Faculty of Veterinary Medicine Course Curriculum

1.	Course Name	PHARMACOLOGY I
2.	Course Code	VTT305
3.	Course Type	Compulsory
4.	Course Level	Undergraduate
5.	Year	3
6.	Semester	Fall, 5VET
7.	ECTS Credits	4
8.	National credits	3
9.	Theoretical Course Hours (hours/week)	2h/week
10.	Practical Course Hours (hours/week)	2h/week
11.	Course Prerequisites	None
12.	Other Topics Recommended for the Course	None
13.	Course Language	Turkish
14.	Course Format	Face to face/Online
15.	Course Coordinator	
16.	Other Lecturers that Give the Course	-
17.	Communication Details of the Coordinator	
18.	Course Web Address	
19.	Course Aim	It is aimed to teach the effects that medicine has on the human and animal body, to know the basic effect mechanisms and biochemical and biophysical events in the body, the principles of chemotherapy, absorption of medication, distribution, metabolism and excretion of medicine and how to measure these side effects of medicine, information about acute subacute, chronic and special toxins, biopharmaceutics and therapeutics.

20.	Contribution of the Course to Occupational Development	Pharmacology knowledge is one of the indispensable "elements" for a physician during their professional life. Making appropriate and rational treatment decisions is only possible with the acquisition of good pharmacotherapy knowledge. Training on rational drug use in the post-graduate period is very important, especially in terms of more informed prescription of drugs by physicians in the field. Pharmacology is the most important medical course that contributes to the development of these skills by teaching rational drug use to veterinary students before graduation.
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21.	Course Learning Outcomes	LO1	Students will learn the basic terms and terminology of pharmacology.
		LO2	Students will learn the source of medication and its general aspects.
		LO3	Students will learn about absorption, distribution, metabolism and excretion of medications.
		LO4	Students will learn about dose terminology, methods of giving the medication.
		LO5	Students will learn about the effecting mechanisms of medication, types of medication and how to write a prescription.
		LO6	Students will learn the undesirable effects and toxic effects of medications.

22.	Course Content	WEEK	THEORETICAL COURSE CONTENT	APPLICATION CONTENT
		1.	Pharmacology and drug terms, history, pharmacopoeia; Nomenclature, sources, properties and classifications of the drugs	Pharmaceutical processes, measuring and weighing (Molarity, Normality, Calculation %, ppm, ppb mg/kg, mg/ml)
		2.	Pharmacokinetics (administration and absorption of drugs, distribution of drugs, changes in drugs in the body, excretion of drugs)	Codex applications
		3.	Effects of drugs, Dose-Intensity and Dose-Effect relationships, interactions between drugs, factors that change the effect of drugs, drug resistance and dependence, undesirable effects of drugs	Pharmaceutical synthesis and registration
		4.	Prescription information, how to write a prescription, legislation governing the use of veterinary medication	Prescription examples
		5.	Classification of chemotherapeutics, introduction to antibiotics (antibacterial efficacy, spectrum of action, potency, mode of action, antibacterial resistance, antibiotic mixtures)	Forms and preparation of solid medication

		6.	Properties, classification, pharmacokinetics, mode of action, spectrum of action, side/toxic effects and uses of beta lactam, aminoglycoside and macrolide antibiotics	Semi-solid drug forms and preparation of glycerine iodine ointment
		7.	Properties, classification, pharmacokinetics, mode of action, spectrum of action, side/toxic effects and uses of tetracycline, phenicol, lincosamides, polypeptide and quinolone antibiotics	Liquid medicine forms and tincture diode preparation
		8.	Nitrofurans, Imidazoles, Rifamycins, Sulfonamides, properties, classification, pharmacokinetics, mode of action, spectrum of action, side/toxic effects and uses of antibiotics. Antibiotics used for certain diseases	Sample prescription writing
		9.	Midterm Exam. - The properties, classification, pharmacokinetics, mode of action, spectrum of action, side/toxic effects and uses of anthelmintic drugs. Strategic anthelmintic use - Properties, classification, pharmacokinetics, mode of action, spectrum of action, side/toxic effects and uses of drugs that affect protozoa	Sample prescription writing
		10.	Introduction to drugs that affect external parasites (where external parasites live in the body, drug administration methods, considerations when using drugs, characteristics of an ideal external parasite drug, insecticides action patterns, classification) Insecticides, Insect growth regulators, Inorganic drugs, Plant-derived drugs, Microbial drugs and Biological substances' properties, classification, pharmacokinetics, mode of action, toxicity and treatment options. Drug selection according to animal species and variety	Prescription application

		11.	Classification, properties, mode of action, effect and uses of insect repellents, drugs used against rodents and drugs used against slugs. Control of insects important for public health. Insecticide formulations, application methods, choosing an appropriate chemical control strategy, insecticides resistance.	Prescription application
		12.	Classification of antiseptics and disinfectants, their properties, modes of action, spectrum of action, use, classification and points to be considered in disinfection.	Prescription application
		13.	Chemotherapy of Neoplastic Diseases, properties of drugs used, classification, side effects, warnings, toxicity, resistance and use	Prescription application
		14.	Classification, properties, effects and uses of drugs affecting Fungi and Viruses	Prescription application
23.	Course Book, References and/or Other Resources	1. Genel farmakoloji (ders notları) Prof. Dr. B. CEM LİMAN 2. Kemoterapötikler (ders notları) Prof. Dr. B. CEM LİMAN		

24.	Evaluation	SEMESTER WORK	NUMBER	PERCENTAGE OF CONTRIBUTION
		Midterm Exam	1	40
		Short Exam		
		Homework, Performance		
		End of Year Exam	1	60
		Total	2	100
		Evaluation Approaches	The exams will be multiple choice.	

25.	ECTS / Workload Table	Activity	NUMBER	Duration [Hours]	Total Workload [Hours]
		Theoretical Courses	14	2	28
		Applied Courses	14	2	28
		Extracurricular Lesson Study Time (Preparation, revising)	14	4	56
		Homework, Performance			
		Projects			
		Field Studies			

		Midterm Exams	1	1	1
		Other	1	6	6
		End of Semester Exams	1	1	1
		Total Workload			120
		Total Workload/ 30 Hours			120/30
		Course ECTS Credits	4		4