Syllabus

Module title:			Veterinary pharmacology - Module 1						Е	CTS	4
Polish translat	tion:		Farmakologia	weterynaryjna - N	Moduł 1						
Course:			Veterinary Me	dicine							
36 1 1 1			F 1' 1			l a.			1		
٧		1		∇ 1:-	☑	~			1		4
studies:			module:	☑ basic☐ directional	□ elective	Semester: 5			⊠ wint □ sumr		
			Academic year	::		2023/2024			FVM-V		S-05W-
			•				number		B37_23		
Module coord	linator:		dr n. wet. Wojo	ciech Karlik							
Teachers responsible for the module:			Academic teachers of the Institute of veterinary medicine; Department of preclinical sciences. PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study								
Objectives of	the module:		Familiarization and whole orga drugs (characte classification g Understanding	n with general phanism levels, pha eristics of selecter groups - ACTVet; with the classific inary pharmacoth	armacology (mechanis rmacokinetics, drug in d veterinary drugs repo). cation of active substa	sms of action of iteractions) and resenting indivi	f drugs at detailed idual anat e treatmen	the molect pharmacole tomical, the nt of anima	ular, cel ogy of cerapeuti	organ-a c and c wledge	chemical e of the
Teaching forn hours:	ns, number o	of	Lectures: 30 h Seminars: 30 l	iours							
Teaching methods:			Lecture - multimedia presentation prepared by academic teachers Seminars - Students' own work (independent or in groups) on solving the problem given by the teacher; presentations prepared by students in the form of a short lecture; discussion. Consultation - 1 hour / week. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.								
Formal prerequirements:		nitial					mal phys	iology, ch	emistry	, bioch	emistry,
Outcome cate	gory		Learning outco	omes:				Learning or relative to course outo	the	the	oact on course comes
	1	W1						A.W.16		3	
	V	W2	Student knows the detailed pharmacology of organ drugs in relation to about 150 active substances including: pharmacodynamics, pharmacokinetics, side effects and contraindications in the main species of domestic animals					A.W.16		3	
Knowledge	1	W3	Student can classify about 300 active substances together with their assignment to the appropriate ACTVet group (including 3 level of classification);					A.W.16		3	
	7	W4	Student understands drug interactions and polytherapy							3	
	aching forms, number of aching methods: Temple aching aching methods: Temple aching ac	ows in the basic level pharmaceutical law, including in the field nedicines on the prescription			e field	A.W.19, B	B.W.7 3				
	7	W6	Student unders	stand the issues of	ctional	A.W.16, B	.W.21	3			
	J	J1	Student is able				nealthy	A.U.4, B.U	J.13	3	
Skills	Ţ	J2	Student is able to choose the right drug to modify the body's functions in a given pathological condition				ns in a	A.U.4, B.U	J.13	3 3	
	Ţ	J3	Student can write the medicinal product on the prescription					B.U.10		3	
	Ţ	J4	Student is able to calculate a withdraw period for the drug					B.U.10		3	
	τ	J 5	Student is able to communicate knowledge in the field of drug action and justify the choice of drug for treatment				and	A.U.12, A.	U.13	3 3	
	F	Κ1						KS.1		3	
	F	ζ2	In the selection of the drug student is primarily guided by the well-being of				eing of	KS.2, KS.4	1	3	
Competences	F	Κ3	Student finds information about new drugs,					KS.4, KS.8	3	1	
	K4		Student is involved in the progress of new drugs pharmacology, assesses the differences between drugs based on their own observations				sses	KS.5		1	

K5	Student deepens the knowledge necessary for further ed	ucation	KS.4, KS.8	1		
Topics of lectures: Pharmacolynamics general principles and definition. [2 hours] Pharmacolynamics general principles and definition. [2 hours] Drug acting on musculo-skeletal system. QM03 Muscle relaxants. [2 hours] QN01A Anesthetics, general. [2 hours] QN01A alimentary tract and metabolism. QA02 Drugs for acid related disorders. [2 hours] QA05 Bile and liver therapy. QA08 Antiobesity preparations. QA15 Appetite stimulants. [2 hours] Drug acting on cardiovascular system. QC01A Cardiac glycosides. [2 hours] QC01C Cardiac stimulants excl. cardiac glycosides. QC01D Vasodilatators used in cardiac disease. [2 QC03 Diuretics. Fluid electrolyte therapy. [2 hours] QR Respiratory system. QB Blood and blood forming organs. [2 hours] QR Respiratory system. QB Blood and blood forming organs. [2 hours] Veterinary prescription. Rules for writing drugs on a prescription. [2 hours.] Pharmacology of autonomic nervous system — adrenergic. [2 hours.] Pharmacology of autonomic nervous system — adrenergic. [2 hours] QN05 Psycholeptics part 1: QN05A Antipsychotics, QN05B Anxiolytics QN05 Psycholeptics part 2: QN05C Hypnotics and sedatives, Alpha-2 agonist centrally ating [2 hours.] QN05 Antiepileptics. QN06 Psychoanaleptics, QN51 Products for animal euthanasia [2 hours] Drug acting on gastrointestinal tract. QA03 Drugs for functional gastrointestinal disorders. QA06 Laxa QA07 Antiemetics and antinauseants [2 hours] QA04 Antiemetics and antinauseants [2 hours]						
	Vasoprotectives [2 hours] QC07 Beta blocking agents, QC08 Calcium channel blockers, QC09 Agents acting on the renin-angiotensin system [2 hours] QC01B Antiarrythmics. Recapitulation group QC [2 hours] QH Systemic hormonal preparations [2 hours] 1 / Written colloquium with open descriptive questions and test questions (multiple choice test). The number of questions, the proportions between the type of questions and the scores for individual questions may vary depending on the difficulty of the questions. The sum of points obtained at the colloquium is expressed as a relative percentage scale, where 100% is the maximum of points that can be obtained at the colloquium. The scope of knowledge checked at colloquia includes lecture and seminars topics. There is no minimum of points necessary to pass the colloquium. Two colloquiums (K1 and K2) are planned. Student can get 100 percentage points from each colloquium. Each colloquium has two terms. Each student has the right to write colloquium two times, regardless of the result obtained. The result obtained from the next term cancels the result from previous term of the given test. An absence on the first term gives the right to re-schedule this term. Absence on the second term does not result in					
Assessment methods:	setting another term. The percentage points from each colloquium are conver Percentage points 0-30 31-39 40-44 45-49 50-60 61-70 71-80 81-90 91-100					
Formal documentation of	 2 / Assessment of the work on seminars in module 1 (C1) is issued on the basis of presentations prepared by the student and is issued on a scale of 2 to 5. The assessment is based on compliance with the topic and the correct answers to the questions asked. No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted. eHMS entry. Records collected in the course portfolio i.e. individual records of student results, presence lists, database of 					
learning outcomes:	oral and written questions, written assessments of the str		, r			

	The final grade, entered into eHMS, is calculated from the formula:				
	[K1 * 0.45] + [K2 * 0.45] + [(C1-2) * 0.2]				
	where: K1 - grade from colloquium 1, K2 - grade from colloquium 2, C1 - assessment of the work on seminars				
	The value calculated above is converted into a final grade according to the table below:				
	Calculated value	Final grade			
	<0,00 - 3,00)	2,0			
Elements impelling final grade:	<2,90 – 3,25>	3,0			
	(3,25 – 3,75>	3,5			
	(3,75 – 4,25>	4,0			
	(4,25 – 4,75>	4,5			
	(4,75 – 5,10>	5,0			
	If the student is absent from more than 3 seminars the grade on the end of module 1 is 2.0.				
Teaching base:	Lecture halls, seminar rooms at SGGW				
Mandatory and supportive materials :					

- Veterinary Pharmacology and Therapeutics. Red. H. Richard Adams, Iowa State University.
 Handbook of veterinary pharmacology. Red Walter H. Hsu. Wiley-Blackwell 2008 r.
 Relevant scientific publications, including those of the module coordinator.

ANNOTATIONS

Quantitative summary of the module:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:					100 h	
Hours theoretical:	100	Hours practical:		Hours of field exercises:		Total contact hours: 100 hrs
Total ECTS points, accumulated by students during contact learning:						2 ECTS