

Module code	M_WE_SEM8 CHZF
Field of study	Veterinary medicine
Module name, also the name in English	Diseases of fur animals Choroby zwierząt futerkowych
Language of instruction	English
Module type	Obligatory
Level of studies	Long-cycle Master's Degree studies
Mode of study	Full-time
Year of study in the field of study	IV
Semester of study in the field of study	VIII
ECTS credits, divided into contact/non-contact hours	2 (1.2/0.8)
Academic title/degree, name of the person responsible for the module	dr. hab. Łukasz Jarosz, university professor
Unit teaching the module	Department of Epizootiology and Clinic of Infectious Diseases
Module objective	The course provides knowledge on the principles of breeding and feeding fur animals, general characteristics of fur animal species with elements of population genetics and molecular biology, basic data on physiology, surgical procedures, obstetrics and diseases of the perinatal period and insemination in these animals. The course covers basic physiology, surgical procedures, obstetrics and diseases of the perinatal period and insemination in these animals, etiology, epidemiology, pathogenesis, diagnosis, therapy and prevention of infectious, non-infectious and parasitic diseases and the principles of conduct in the case of detection of infectious diseases subject to mandatory registration, immunoprophylaxis and immunotherapy of infectious diseases and veterinary medicine in fur farms.
The learning outcomes for the module include a description of the knowledge, skills and social competences that the student will gain after completing the module.	Knowledge:
	K1 - the student knows the principles of diagnostic procedures, including differential diagnosis, and therapeutic procedures, and identifies etiological factors of selected viral, bacterial, fungal and parasitic diseases of fur animals.
	K2 - the student knows the ways of proceeding in case of suspicion or detection of diseases subject to obligatory control or registration and proposes and plans basic diagnostic tests for fur animals
	K3 - the student acquires theoretical knowledge about breeding and keeping furry animals
	Skills:
	S1. The student is able to conduct a veterinary medical interview to obtain accurate information about an individual animal or group of animals and perform clinical and postmortem examinations of fur-bearing animals
	S2. Student takes a sample for laboratory testing from fur-bearing animals
	S3 the student knows how to develop and implement prophylactic programmes and acquires practical skills to carry out preventive and therapeutic actions in breeding and rearing of fur animals
	Social competences:

	C1. The student demonstrates responsibility for the decisions taken in relation to the animal and its owner and presents attitudes consistent with the code of ethics of a veterinarian
	C2. The student is aware of his/her own limitations and understands the need for continuous improvement of knowledge and skills in the field of fur animal diseases.
Preliminary and additional requirements	No entry requirements

<p>Module programme content</p>	<p><b>Exercise topics (two hours per each exercise):</b></p> <p>I General characteristics of fur farming. Proceedings of the veterinarian taking into account the specifics of the reproductive, sheath and digestive system cycles of carnivorous fur-bearing animals.</p> <p>II Non-infectious diseases of foxes and minks (hepatic encephalopathy, yellow fat disease, hereditary tyrosinemia, stones, poisoning in carnivorous fur animals)</p> <p>III Parasitoses of fur animals (eimeriosis and isosporosis of minks, isosporosis of foxes, opistorchosis, tapeworms (toxocariasis, toxascariasis), encephalitozoonosis, cheyletiellosis, mink coccidiosis, rabbit coccidiosis)</p> <p>IV Selected disorders of chinchillas (breeding characteristics, physiology, reproduction, medical procedures, gastrointestinal disorders dental surgery, diarrhea, constipation, metabolic surgery), respiratory tract surgery - Bacterial infections, mycoplasmas and rickettsial infections, chlamydiosis, viral diseases, reproductive disorders, cancer diseases, mycoses, diseases related to technological processes - fractures, bites, loss of fur,</p> <p>V Tularemia in fur animals, etiopathogenesis, diagnosis, prevention.</p> <p>VI Infectious diseases of foxes and minks. Diseases of the digestive system of foxes - salmonellosis, colibacteriosis. Diseases of the reproductive system of carnivorous fur-bearing animals (e.g. parvovirus, staphylococcal and pseudomonas infections ). Diseases of the nervous system of carnivorous fur animals (distemper, infectious fox encephalitis - diagnosis and procedures. Viral enteritis, astrovirus syndrome.</p> <p>VII Selected diseases of rabbits (enterotoxemia, colibacteriosis, enteric syndrome, salmonellosis, proliferative inflammation of intestines, pastelosis, Tyzzer's disease, other conditions and disease entities (cancer, lithiasis, coronavirus, inflammation of eyeballs).</p> <p>VIII Selected diseases in ferrets (physiology and pathology, individual characteristics, clinical examination, ferret coronavirus, Aleutian disease, Helicobacter sp., proliferative and eosinophilic enteritis, endocrinopathies, insulinomas, lymphomas, foreign bodies, gastrointestinal ulcers other disease entities)</p> <p><b>Lecture topics (2 hours per each lecture):</b></p> <ol style="list-style-type: none"> <li>1. Legal basis for the operation of fur farms classified as livestock. Farm equipment and biosafety on a fur farm. Welfare on a fur farm.</li> <li>2. Basic concepts of nutrition of carnivorous fur-bearing animals.</li> </ol>
---------------------------------	---

3. Basic concepts of nutrition of herbivorous fur-bearing animals.
4. Selected mink diseases: hemorrhagic pneumonia, mink encephalopathy, Aleutian mink disease, viral enteritis.
5. Myxomatosis and viral hemorrhagic disease of rabbits - etiopathogenesis, clinical signs, pathomorphological lesions, diagnosis, prevention.
6. Specific immunoprophylaxis in farm raised rabbits, foxes and minks.
7. Neurological diseases in carnivorous and herbivorous fur-bearing animals. Neurological examination plan
8. Bacterial diseases in carnivorous and herbivorous fur-bearing animals.

List of basic and supplementary literature	<p>Basic literature</p> <ol style="list-style-type: none"> <li>1. Gabrisch K., Zwart P.: Clinical Practice: exotic animals</li> <li>2. Mitchell M., Tully T.N.: Manual of exotic pet practice. Elsevier Urban &amp; Partner, Wrocław 2010.</li> </ol>
Planned forms/activities/teaching methods	<p>The course is conducted in the form of lectures and exercises. Lectures and exercises in the form of original multimedia presentations by each of the instructors including practical and clinical aspects.</p> <p>Consultations: internally scheduled 1 x per week for 2 hours each outside of the regular class schedule.</p>
Verification methods and ways of documenting the achieved learning outcomes.	<p>Knowledge outcomes - lab discussion, one written colloquium of 3 open-ended questions on fur-bearing animal diseases is expected. Each question is scored from 0 to 5. The instructor evaluates student responses based on their knowledge and experience. The credit grade is based on the average of the grades for the individual questions.</p> <p>Skills outcomes - discussion during laboratory classes on the examples of infectious diseases discussed - the students are presented with photographs of clinical cases and descriptions of diseases, on the basis of which the students discuss with the instructor the veterinary medicine management for a given case in terms of diagnostic methods that can be used, treatment and prophylaxis, and administrative proceedings. There will also be one oral practical-theoretical credit. Polish and Latin nomenclature is applicable in the answers. The examiner will ask the student two theoretical questions about fur animal diseases and one practical question involving the development of an administrative procedure for eradication of infectious diseases of fur animals. The instructor evaluates the student's statement based on his/her knowledge and experience. The student is required to answer all questions satisfactorily. The answer to each question is scored on a scale of 2-5. The credit grade is based on the average of the grades for the individual questions.</p> <p>Competence outcomes - Student observation and assessment during exercises, participation in discussion</p> <p>Final exam: test - multiple choice, 20 closed questions  <i>Criteria used to evaluate the test paper</i>  2,0 - &lt; 51%  3,0 - 51%-60%  3,5 - 61%-70%  4,0 - 71%-80%  4,5 - 81%-90%  5,0 - 91%-100%</p>

ECTS credits	<ul style="list-style-type: none"> <li>- participation in lectures - 15 hours.</li> <li>- participation in exercises - 15 hours.</li> <li>- preparing to the exercises ("inputs") - 20 hours.</li> <li>- participation in consultations - 2 hours.</li> </ul> <p>The total student workload is 52 hours which is equivalent to 2 ECTS credits</p>
The workload of activities that require direct participation of an academic teacher	<ul style="list-style-type: none"> <li>- participation in lectures - 15 hours.</li> <li>- participation in exercises - 15 hours.</li> <li>- participation in consultations - 2 hours.</li> </ul> <p>32 hrs total. which corresponds to 1.2 ECTS credit</p>
Relation of module learning outcomes to major learning outcomes	<p>K1 - B.W1++; B.W2++;  K2 – B.W3++; B.W5++; B.W8++;  K3 – B.W13++ B.W14++ B.W21+  S1 – B.U2++; B.U3++  S2 – B.U6++  S3 – B.U8++ B.U10++ B.U21++  C01 - K1++; K8++  C02 - K7++</p>
Elements and values affecting final grade	<p>Final grade:  The course grade is calculated on the basis of: the grade in the written test (weighting 10%), the grade in the practical-theoretical test (weighting 10%), and the grade in the final examination (weighting 80%).</p>