

Code of subject	M_WE_SEM9 CHPK 1
Field of study	Veterinary
Name of the training module including the Polish name	Diseases of dogs and cats. Block 1 Choroby psów i kotów. Blok 1
Language of instruction	English
Type of the training module	obligatory
Level of the training module	master studies
Form of studies	stationary
Location in the programme (year)	V
Location in the programme (semester)	IX
Number of ECTS credits with a division into contact/noncontact	6 (4/2)
Name and surname of the person in charge	prof. Stanisław Winiarczyk
Unit offering the subject	Department and Clinic of Animal Surgery Department and Clinic of Animal Internal Diseases
Aim of the module	The aim of the module is to acquaint students with knowledge in the course and treatment of internal diseases of dogs and cats in terms of their origin, diagnosis and treatment. Students will acquire practical skills in performing subsequent stages of clinical diagnostics, interpretation of laboratory results, determining treatment modalities and its monitoring. The programme covers respiratory, circulatory and blood diseases in dogs and cats. In addition, the module aims at mastering theoretical knowledge and acquiring practical skills related to general and detailed surgery and anaesthesiology of dogs and cats. The course also covers issues in the diagnosis of diseases requiring pre- and post-operative surgical management.
Learning outcomes	<p>Knowledge:</p> <p>The student knows and understands:</p> <p>K1. Etiology and pathogenesis, diagnostic methods, therapeutic management and prevention of internal, orthopaedic and dental diseases in dogs and cats.</p> <p>K2. Course, clinical symptoms and methods of diagnosing and surgically treating selected diseases of dogs and cats within the range of dentistry and ophthalmology.</p> <p>K3. Mechanisms of organ and systemic pathologies in the respiratory, circulatory and haematopoietic systems.</p> <p>K4. Principles of diagnostic management: clinical physical examination and additional investigations (including differential diagnosis) and therapeutic regimens.</p> <p>Skills:</p> <p>The student can:</p> <p>S1. Independently take medical-veterinary history and complete clinical examination in order to obtain information about the animal's disease.</p>

	S2. Use basic additional examinations in diagnosing and treating internal, orthopaedic and dental diseases of dogs and cats.
	S3. Select and administer appropriate chemotherapy for internal diseases taking into account the target species.
	S4. Select and apply appropriate treatment procedures for orthopaedic and dental diseases of dogs and cats.
	S5. Assess the need for euthanasia in cases of poor prognosis and suffering of the animal and inform the owner in an appropriate manner.
	Social Competence:
	Is willing to:
	C1. Present an attitude in accordance with the principles of the code of ethics of a veterinarian.
	C2. Deepen knowledge and improve skills in the treatment of internal, orthopaedic and dental diseases of dogs and cats.
	C3. Critically evaluate own decisions and feel responsible for them.
Preliminary and additional requirements	according to the sequence of subjects
Contents of the training module – a compact description of approx. 100 words.	<p><b>Dog and Cat Surgery:</b></p> <p><u>lectures</u></p> <ol style="list-style-type: none"> <li>1. Hypoplasia of the eyelid, ankyloblepharon, eyelid adhesions, dermatophytosis, eyelash diseases, trichiasis of the nasal folds, eyelid injuries.</li> <li>2. Neoplasms of the eyelids, inflammation of the eyelids, Meibomitis, sty, chalazion, entropion, ectropion.</li> <li>3. Diseases of the third eyelid: congenital defects, foreign bodies, tumours, third eyelid gland prolapse.</li> <li>4. Diseases of the third eyelid: retraction, hypertrophy and prolapse of the third eyelid gland; follicular conjunctivitis, plasmacytic conjunctivitis.</li> <li>5. Injuries of the eye.</li> <li>6. Keratitis – diagnosis and therapy.</li> <li>7. Diagnosis and therapy of corneal ulcers.</li> <li>8. Uveitis.</li> <li>9. Anaesthesia of patients for dental procedures.</li> <li>10. Microbiology of the oral cavity.</li> <li>11. Injuries of the mandible: treatment, complications.</li> <li>12. Injuries of the jaw: treatment, complications.</li> <li>13. Head injuries in cats.</li> <li>14. Neoplastic lesions of the oral cavity in dogs and cats.</li> <li>15. Orthodontic procedures performed in dogs and cats: technique, indications.</li> </ol> <p><u>classes</u></p> <ol style="list-style-type: none"> <li>1. Ophthalmic diagnostics.</li> </ol>

2. Injections: occlusal, into vitreous body, into anterior chamber, subconjunctival. Tear duct lavage.
3. Temporary eyelid anastomosis. Surgical treatment of eyelid diseases.
4. Removal of the eyeball. Surgical treatment of eyeball prolapse.
5. Seminar classes.
6. Anatomical conditions of the oral cavity and teeth structure in dogs and cats.
7. Diagnosis of periodontal diseases in dogs.
8. Diagnosis of periodontal diseases in cats.
9. Treatment of dental crown fractures.
10. Types of dental fillings.
11. Practical methods of removing single-rooted and multi-rooted teeth.
12. Filling cavities with light- and chemically-cured materials, amalgam.
13. Endodontic treatment of teeth in dogs.
14. Application of biomaterials in periodontal regeneration.
15. Seminar classes.

**Internal diseases of dogs and cats:**

lectures

1. Respiratory failure in dogs and cats: clinical division, stages, metabolic and clinical consequences.
2. Obstructive and restrictive diseases, principles of diagnosis.
3. Development of upper respiratory tract diseases.
4. Development and course of lung diseases.
5. Circulatory insufficiency and heart failure – development, course, classifications, principles of diagnosis.
6. Current principles of cardiological therapies in dogs and cats.
7. Red blood cells and their clinical disorders.
8. White blood cells and their clinical disorders.
9. Changes in coagulation system in dogs and cats.
10. Blood transfusions in small animals – indications and principles.
11. Hydro-electrolyte balance: diagnosis and fluid therapy.

classes

1. Symptomatology and principles of diagnosing respiratory system diseases.
2. Upper respiratory tract diseases.
3. Lung diseases.
4. Symptomatology of circulatory insufficiency and heart failure, principles of clinical examination with auscultation.
5. Diseases of the myocardium and endocardium.
6. Valvular defects and arrhythmias.

	<ol style="list-style-type: none"> <li>7. Anaemias, their types and diagnosis.</li> <li>8. White blood cell disorders, leukaemias of dogs and cats.</li> <li>9. Performance of transfusions.</li> <li>10. Preparation of fluid therapy for animals with various degrees of dehydration.</li> </ol>
<p>Recommended and obligatory reading list</p>	<ol style="list-style-type: none"> <li>1. T. Fossum – Small Animal Surgery</li> <li>2. D. Slatter - Textbook of Small Animal Surgery, vol. 2</li> <li>3. S.A. Johnston, K.M. Tobias - Veterinary Surgery: Small Animal</li> <li>4. K.Barnett Diagnostic Atlas of Veterinary Ophthalmology</li> <li>5. C.C. Lim Small Animal Ophthalmic Atlas and Guide</li> <li>6. D.L. Williams, K. Barrie, T.F. Evans - Veterinary Ocular Emergencies</li> <li>7. K.N.Gelatt, J.P.Gelatt - Veterinary ophthalmologic surgery</li> <li>8. F. Verstraete M. L. B. Arzi - Oral And Maxillofacial Surgery In Dogs And Cats</li> <li>9. R.W. Nelson R.W., C.G. Couto - Small Animal Internal Medicine</li> <li>10. S.J. Ettinger, E.C. Feldman, E. Cote - Textbook of Veterinary Internal Medicine</li> </ol> <p>Scientific publications indicated by the instructor in the field of the discussed educational contents and scientific research conducted in the unit.</p> <p>Thematic articles in professional journals of small animal practitioners.</p>
<p>The intended forms/activities/ teaching methods</p>	<p>Classes are conducted on the basis of the author’s lectures, multimedia presentations, as well as practical performance of clinical diagnostic procedures in the field of taking medical story, clinical examination and making a diagnosis with suggestions for treatment. Discussion and solving hypothetical clinical situations are also an element of learning.</p> <p>Practical classes are carried out with the participation of clinical patients and on didactic models and cadavers. In the presence of the instructor, students take a clinical story with the animal’s owner, analyse the results of examinations (laboratory, radiological, ultrasound) and make a diagnosis, then discuss the possibilities of surgical treatment, taking into account the technical feasibility and economic aspect. During the practical classes in surgery, the teacher discusses and comments on the various stages of the procedures. After the procedure, the students discuss possible complications and methods of convalescence.</p> <p>Consultations are arranged at the beginning of the semester with the course coordinator; this is one hour per week.</p>
<p>Methods of verification and documentation forms of the achieved learning outcomes</p>	<p><b>Dog and Cat Surgery:</b></p> <p>The student is obliged to prepare with theoretical knowledge and perform a practical task with its discussion according to the curriculum. The level of the student’s preparation is assessed in</p>

oral form. Questions are asked by the lecturer, answers to the questions are evaluated on a scale of grades from 2 to 5. The level of preparation of each student is examined once a semester. The student is given the opportunity to make up for a failing grade in the same form in subsequent classes after arranging the date. Obtaining a positive grade is a condition for taking the final examination.

Final examination:

The condition for taking the examination is participation in classes (min. 80% attendance) in accordance with the current study regulations.

The partial examination in Dog and Cat Surgery is in written form and consists of two parts: Ophthalmology and Dentistry. The grading scale is in accordance with the Book of Education Quality, i.e. 2-5 in% appropriate to the Book of Education Quality. A grade scale from 2 to 5 for each part:

2 failing – below 60%

3 sufficient – 61-70%

3+ sufficient plus – 71-75%

4 good – 76-85%

4+ good plus – 86-90%

5 very good – 91-100%

1st and 2nd term takes place in the same form.

Apart from the indicated methods of verification of the learning outcomes (form, number) no additional ones are foreseen.

#### **Internal diseases of dogs and cats:**

K – Knowledge is verified 1 x per week during classes. 1-2 questions according to the schedule of classes, without evaluation. 3 times in a semester a credit is given: in respiratory diseases, in cardiovascular diseases and in haematology. The credits are given in the form of a theoretical-practical test on an animal with the necessity to answer 3-5 questions concerning the diseases of a given system and to perform a practical task connected with an element of the clinical examination. The pass mark is achieved (3) with at least 80% of the required knowledge and tasks from each thematic block.

Grade 4 – applying > 80% – 90% of the required knowledge

Grade 5 – applying > 90% of the required knowledge.

Grades are documented in the classes register.

S – Verification of skills is an element assessed together with verification of knowledge. Grading criteria – as above. Grades are documented in the course register.

K – Verified on the basis of attitude, presented opinions, views in discussion, answers to questions during the consideration of hypothetical office situations with the participation of animal owners. The grading scale is in accordance with the Book of

	Education Quality. Assessments of competence in accordance with legal, medical and ethical requirements.		
Balance of ECTS credits	<b>CONTACT</b>		
		<i>Hours</i>	<i>ECTS</i>
	lectures	30	1,2
	classes	60	2,4
	consultations	5	0,2
	partial credit	5	0,2
	<b>TOTAL contact hours</b>	<b>100</b>	<b>4</b>
	<b>NON-CONTACT</b>		
	preparation for classes	32	1,28
	preparation for course completion	18	0,72
<b>TOTAL non-contact hours/ ECTS credits</b>	<b>50</b>	<b>2</b>	
Number of contact hours	lectures	30	1,2
	classes	60	2,4
	consultations	5	0,2
	partial credit	5	0,2
	<b>TOTAL contact hours</b>	<b>100</b>	<b>4</b>
Relationship between subject learning outcomes and veterinary studies learning outcomes	<p>K1. – WE_W16 ++, WE_W21 ++  K2. – WE_W17 ++, WE_W21 ++  K3. – WE_W15 ++, WE_W16 ++  K4. – WE_W19 ++, WE_W21 ++</p> <p>S1. – WE_U14 ++, WE_U16 ++  S2. – WE_U19 ++  S3. – WE_U23 ++, WE_U25 ++  S4. – WE_U17 ++, WE_U24 ++, WE_U25 ++, WE_U26 ++  S5. – WE_U27 ++</p> <p>Sc1. – WE_K2 ++  Sc2. – WE_K6 ++  Sc3. – WE_K5 ++</p>		
Impact of selected compounds to final grade	<p><b>Dog and Cat Surgery:</b>  The preliminary requirement for passing the examination is the attainment of passing grades and attendance in accordance with the current study regulations. The partial examination in Dog and Cat Surgery is in written form and consists of two parts: Ophthalmology (50% of the grade) and Dentistry (50% of the grade). At the beginning of the semester, arranging dates with the Head of Year for the final credits in Dentistry and Ophthalmology at two convenient times.</p> <p><b>Internal diseases of dogs and cats:</b></p>		

Attendance at classes is a preliminary requirement. In 15 classes, a student may have 1 unexcused absence and 1 excused absence per semester.

The final requirement is 3 passing grades from partial/placement credits. The grade for the semester is the average of 3 credits.

The final grade may be raised by half a grade in the case of demonstrating activity, engagement, maturity and independence of views on social competence during practical classes and discussions.

The final grade for the module is the average of the grades given at the end of the semester by the Department of Surgery (credit for ophthalmology and dentistry) and the Department of Animal Internal Medicine.