SZKOŁA GŁÓWNA GOSPODARSTWA WIEJSKIEGO

Rotation - Dog and cat diseases

Educational subject description sheet

Basic information

Field of study Veterinary Medicine	**Didactic cycle** 2024/25
Speciality -	**Subject code** WETFVMS_D.5200K.01773.24
Organizational unit Faculty of Veterinary Medicine	**Lecture languages** english
Study level long-cycle	**Mandatory** Obligatory subjects
Study form full-time studies	**Block** Major subjects
Education profile General academic	**Disciplines** Veterinary medicine

Coordinator	Magdalena Ostrzeszewicz
Teacher	Magdalena Ostrzeszewicz, Jan Frymus, Marek Galanty, Jacek Sterna, Beata Degórska, Mikhal Baranski, Katarzyna Zabielska-Koczywąs, Agata Wojtkowska, Anna Małek, Tadeusz Frymus, Olga Szaluś-Jordanow, Piotr Jurka, Ilona Kaszak, Marta Parzeniecka-Jaworska

Period Semester 10	**Examination** Pass with grade **Activities and hours** Clinical practice: 120	**Number of ECTS points** 6

Goals

Code	Goal
C1	The aim of the teaching is to teach the students the skills of examining, diagnosing particular diseases which qualify the patient for surgical treatment, taking into account the method of surgery, choice of anaesthesia and postoperative procedures. During the classes, in particular, the student is required to acquire practical skills such as: injections, intubation, preparation of a tool table for surgery, aseptic preparation of hands for surgery, aseptic wearing of gloves, assisting in surgery with observing the principles of aseptics during the procedure, suturing of the skin, ligation of blood vessels, supervision of anaesthesia. The acquisition of the above skills is enforced from each student's grade and recorded in a personal record of passing the surgical skills. During classes, students also have the opportunity to improve selected surgical skills (suture, knot tying, ligation of blood vessels, osteosynthesis) on isolated organs or phantoms.
C2	The course will provide the knowledge in diagnostics and treatment of the most common Small Animal diseases. Students, after completing the course should be able to: - identify proper signal, the chief complaint, - review medical history, - perform a thorough physical examination, - select diagnostic and therapeutic procedure, - collect and interpret laboratory data, - choose the right treatment and follow-up protocol PRACTICALS - Small animal internal diseases: - Diagnosis and treatment of canine and feline skin diseases (e.g. pyoderma, feline eosinophilic granuloma complex, dermatomycosis) - Diagnosis and treatment of canine and feline respiratory, urinary, digestive, nervous, cardiovascular system diseases - Diagnosis and treatment of canine and feline haematological disorders
C3	The aim of the course is to familiarize students with clinical cases of rarely occurring infectious diseases of dogs and cats in the aspect of their diagnosis, differential diagnosis and control.
C4	The use of ultrasound techniques in the diagnosis of infectious diseases of dogs and cats. The aim of the course is to familiarize students with the usefulness of ultrasound examination in everyday veterinary work. AFAST, TFAST, VetBLUE and FocusedECHO protocols.
C5	The course will provide the knowledge of the specificity of dogs and cats reproduction in comparison to other animal species. Content of the curriculum will be implemented in two groups of issues: 1) physiology of reproduction, 2) pathology of reproduction and obstetrics. The program is conducted in the form of practical training. Topics of practical training include diagnostics of estrous cycle phases, pregnancy detection, physical examination, complementary diagnostic methods used in gynaecology and obstetrics, contraception (including gonadectomy), identification of the causes of infertility, basic therapeutic methods and procedures, surgical treatment in gynaecology, obstetrics and diseases of mammary gland.

Entry requirements

Dogs and cats diseases, Andrology and artficial insemination.

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge – Student knows and understands:			
W1	rules on the handling and incapacitation of animals	B.W4, B.W5	Oral credit, Assessment of activity during classes
W2	course of disease, clinical symptoms, diagnosis and surgical treatment of selected diseases of dogs and cats	B.W2, B.W3, B.W4	Oral credit, Assessment of activity during classes
W3	basic issues in the field of small animal anaesthesiology. He knows anaesthetic protocols.	B.W6, B.W9	Oral credit, Assessment of activity during classes
W4	the basic internal diseases of dogs and cats	B.W1, B.W2, B.W3	Oral credit, Assessment of activity during classes
W5	basic diagnostic methods used in the diagnosis of internal diseases of dogs and cats	B.W2, B.W4	Oral credit, Assessment of activity during classes

Code	Outcomes in terms of	Effects	Examination methods
W6	methods of therapeutic treatment of dog and cat diseases	B.W4, B.W5, B.W6	Oral credit, Assessment of activity during classes
W7	the occurrence, significance, symptoms and control of rare infectious diseases of dogs and cats presented.	B.W4, B.W5	Oral credit, Assessment of activity during classes
W8	infectious diseases in which the use of ultrasound techniques will speed up the diagnosis and introduction of treatment.	B.W4	Oral credit, Assessment of activity during classes
W9	how to describe, explain and interpret physiological reproductive functions	B.W1, B.W2, B.W3, B.W4, B.W5, B.W6	Oral credit, Report, Assessment of activity during classes
W10	how to describe the activity of hormones regulating reproductive functions	B.W1, B.W2, B.W3, B.W4, B.W5, B.W6	Oral credit, Report, Assessment of activity during classes
Skills – Student can:			
U1	maintain the principles of surgical aseptic when moving around the operating theatre and participating in operations	B.U14	Oral credit, Assessment of activity during classes
U2	perform a clinical examination, make an initial diagnosis and verify it with additional studies	B.U1, B.U2, B.U3, B.U4	Oral credit, Assessment of activity during classes
U3	perform all activities related to the preparation of the patient for the procedure on your own	B.U11, B.U13	Oral credit, Assessment of activity during classes
U4	conduct an interview, clinical examination and differential diagnosis	B.U1, B.U2, B.U3	Oral credit, Assessment of activity during classes
U5	perform an additional test and interpret their result	B.U6, B.U7	Oral credit, Assessment of activity during classes
U6	choose the appropriate therapeutic method	B.U13	Oral credit, Assessment of activity during classes
U7	recognize rare infectious diseases, including using laboratory diagnostics	B.U2, B.U3	Oral credit, Assessment of activity during classes
U8	adjust the pharmacological treatment to individual infectious diseases	B.U13	Oral credit, Assessment of activity during classes
U9	control rare infectious diseases	B.U19	Oral credit, Assessment of activity during classes
U10	perform basic ultrasound examination using AFAST, TFAST, VetBlue and FocusedECHO protocols	B.U7	Oral credit, Assessment of activity during classes
U11	choose and use pharmacological and surgical contraceptive procedures	B.U13, B.U3	Oral credit, Assessment of activity during classes
U12	describe the pathogenesis of ovarian, uterine and vaginal diseases	B.U2, B.U3, B.U6, B.U7	Oral credit, Report, Assessment of activity during classes
Social competences – Student is ready to:			
K1	plan and conduct treatment in selected small animal surgical diseases	KS.1, KS.2, KS.4	Oral credit, Assessment of activity during classes
K2	cooperate in the medical team with the anaesthesiologist and support staff	KS.5, KS.7, KS.9	Oral credit, Assessment of activity during classes
K3	update knowledge and act in accordance with the principles of professional ethic	KS.4, KS.5, KS.8	Oral credit, Assessment of activity during classes

Code	Outcomes in terms of	Effects	Examination methods
K4	critically assess their knowledge and use scientific sources to supplement it	KS.4, KS.8, KS.9	Oral credit, Assessment of activity during classes
K5	share knowledge and competences with others	KS.3, KS.9	Oral credit, Assessment of activity during classes
K6	conduct treatment of internal diseases of dogs and cats with awareness of the responsibility for making decisions towards owners and animals	KS.1, KS.2, KS.3, KS.4	Oral credit, Assessment of activity during classes
K7	cooperate in a team putting animal welfare first	KS.2, KS.3, KS.6, KS.7	Oral credit, Assessment of activity during classes
K8	comply with ethical principles	KS.4, KS.8	Oral credit, Assessment of activity during classes
K9	recognize, plan and conduct treatment of infectious diseases	KS.1, KS.8	Oral credit, Assessment of activity during classes
K10	use basic ultrasound examination techniques in everyday veterinary practice	KS.1, KS.8	Oral credit, Assessment of activity during classes
K11	carry out clinical examination and recognize main diseases of reproductive organs	KS.4, KS.5	Oral credit, Report, Assessment of activity during classes
K12	implement adequate therapeutic procedures	KS.1, KS.2, KS.4	Oral credit, Assessment of activity during classes

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Students take part in workshops in Small Animal Clinic SGGW with many animals. During the course, students gain knowledge and practical abilities necessary for a veterinary practitioner to work in small animal clinic. It gives opportunity for direct contact of the students with animals and their owners. Students have the possibility to learn how to properly interview and do clinical examination in the context of small animal internal diseases, infectious diseases, reproduction and surgery. Clinical internship also includes performance of “in house” diagnostic tests and proper interpretation of the results as well as such medical procedures like vaccinations, injections, catheters’ placement, blood collection, storage and transportation of material for laboratory tests. Students are also able to practice their surgical skills under the supervision of the teachers. Students after completing the course should be able to:- communicate with the animal’s owner in a proper manner - handle the animal in a safe way - perform clinical examination, obtain history, select diagnostic and therapeutic procedure - choose the most suitable additional test(s) and collect required samples - interpret laboratory data - choose the appropriate follow-up protocol - diagnose and treat internal, infectious and reproductive disorders in small animals - perform basic surgery procedures (as a part of rotations in surgery and rotations in reproduction)	W4, W5, W6, U3, U4, U5, U6, K12, K3, K4, K5, K6, K7, K8	Clinical practice

No.	Course content	Subject's learning outcomes	Activities
2.	The subject is conducted in the form of exercises carried out at the clinic's patients. During the classes, the students, in the presence of the lecturer, examine the patient, and then, on the basis of the provided data from the history and the results of the conducted examination and additional tests, the laboratory, radiological and ultrasound examinations make a diagnosis. After the diagnosis of the disease, the possibilities of surgical treatment of choosing one of them are discussed. In the further part of the classes, the students prepare the patient for surgery and participate in the procedure. During the procedure, the coordinator of the course comments stages of the operation. After the procedure is completed, the postoperative procedure, possible complications, methods of convalescence and the way of keeping records are discussed. Detailed schedule will be defined by the coordinator of the course at the beginning of semester. Students are also entitled to 1 hour of consultation per week.	W1, W2, W3, U1, U2, U3, U4, U5, U6, K1, K12, K2	Clinical practice
3.	Presentation of clinical cases, scans, ultrasound examinations. Student will independently perform ultrasound examination in AFAST, TFAST, VetBlue and FocusedEcho protocols	W6, W7, W8, U10, U3, U7, U8, U9, K10, K12, K9	Clinical practice
4.	The course will provide the knowledge of the specificity of dogs and cats reproduction in comparison to other animal species. Content of the curriculum will be implemented in two groups of issues: 1) physiology of reproduction, 2) pathology of reproduction and obstetrics. The program is conducted in the form of practical training. Topics of practical training include diagnostics of estrous cycle phases, pregnancy detection, physical examination, complementary diagnostic methods used in gynaecology and obstetrics, contraception (including gonadectomy), identification of the causes of infertility, basic therapeutic methods and procedures, surgical treatment in gynaecology, obstetrics and diseases of mammary gland	W10, W9, U11, U12, K11, K12	Clinical practice

Course advanced

Activities	Methods of conducting classes
Clinical practice	Lecture, Problem lecture, Conversation lecture, Case study, Discussion, Brainstorm, Presentation, Problem solving, Design method, Analysis of source materials, Mastery of movement and stabilization of the technique, Teamwork, Observation

Activities	Examination method	Percentage
Clinical practice	Oral credit	50%
Clinical practice	Report	25%
Clinical practice	Assessment of activity during classes	25%

Activities	Credit conditions
Clinical practice	Each submodule (internal medicine, surgery, obstetrics and epidemiology) is finished with the grade. Oral examination and practical abilities assessment 50%, evaluation of student's activity and knowledge 25%, project, medical history cards 25 %. Final grade is the average result of grades from all four submodules.

Literature

Obligatory

1. Small Animal Surgery by Theresa Welch Fossum ELSEVIER 2018
2. S. Ettinger, E. Feldman: „Textbook of Veterinary Internal Medicine", 7th edition
3. Small Animal Soft Tissue Surgery Eric Monnet Copyright © 2013 John Wiley & Sons, Ltd
4. C.E. Greene, Infectious Diseases of the Dog and cat. ed.: IV edition, 2012, Elsevier
5. - E. Thiry: Clinical Virology of the Dog and Cat, , 2006, Les Editions du Point Veterinaire
6. - Focused Ultrasound Techniques for the Small Animal Practitioner" Gregory R. Lisciandro, 2013
7. Johnston S.D., Root Kustritz M.V., Olson P.N.S.: Canine and Feline Theriogenology. W.B. Saunders Compan
8. England G., von Heimendahl A.: BSAVA Manual of Canine and Feline Reproduction and Neonatology, 2nd edition
9. - E. Thiry: Clinical Virology of the Dog and Cat, , 2006, Les Editions du Point Veterinaire
10. England G., von Heimendahl A.: BSAVA Manual of Canine and Feline Reproduction and Neonatology, 2nd edition

Optional

1. Feline Soft Tissue and General Surgery, 1st Edition S. J. Langley-Hobbs & Jackie Demetriou & Jane Ladlow
2. Platt. S., Olby N.: "BSAVA Manual of Canine and Feline Neurology", 2nd edition
3. E. Hall, JW. Simpson, D. Williams: BSAVA Manual of Canine and Feline Gastroenterology" 2nd edition
4. J. Eliott, G. Grauer: "BSAVA Manual of Canine and Feline Nephrology and Urology", 2nd edition
5. S. Birchard, R. Sherding: "Saunders Manual of Small Animal Practice", 3rd edition

Calculation of ECTS points

Activity form	Activity hours*
Clinical practice	120
Preparing a report	10
Preparation for the exam	10
Conducting literature research	10
Student workload	**Hours** 150
Number of ECTS points	**ECTS** 6

* hour means 45 minutes

Effects

Code	Content
KS.1	label.effect.prefix.competenceAbsolwent jest gotów do wykazywania odpowiedzialności za podejmowane decyzje wobec ludzi, zwierząt i środowiska przyrodniczego
KS.2	label.effect.prefix.competenceAbsolwent jest gotów do prezentowania postawy zgodnej z zasadami etycznymi i podejmowania działań w oparciu o kodeks etyki w praktyce zawodowej oraz do wykazywania tolerancji dla postaw i zachowań wynikających z odmiennych uwarunkowań społecznych i kulturowych
KS.3	label.effect.prefix.competenceAbsolwent jest gotów do udziału w rozwiązywaniu konfliktów, a także wykazywania się elastycznością w reakcjach na zmiany społeczne
KS.4	label.effect.prefix.competenceAbsolwent jest gotów do korzystania z obiektywnych źródeł informacji
KS.5	label.effect.prefix.competenceAbsolwent jest gotów do formułowania wniosków z własnych pomiarów lub obserwacji
KS.6	label.effect.prefix.competenceAbsolwent jest gotów do formułowania opinii dotyczących różnych aspektów działalności zawodowej
KS.7	label.effect.prefix.competenceAbsolwent jest gotów do rzetelnej samooceny, formułowania konstruktywnej krytyki w zakresie praktyki weterynaryjnej, przyjmowania krytyki prezentowanych przez siebie rozwiązań, ustosunkowywania się do niej w sposób jasny i rzeczowy, także przy użyciu argumentów odwołujących się do dostępnego dorobku naukowego w dyscyplinie
KS.8	label.effect.prefix.competenceAbsolwent jest gotów do pogłębiania wiedzy i doskonalenia umiejętności
KS.9	label.effect.prefix.competenceAbsolwent jest gotów do komunikowania się ze współpracownikami i dzielenia się wiedzą
B.U1	label.effect.prefix.skillAbsolwent potrafi bezpiecznie i humanitarnie postępować ze zwierzętami oraz instruować innych w tym zakresie
B.U2	label.effect.prefix.skillAbsolwent potrafi przeprowadzić wywiad lekarsko-weterynaryjny w celu uzyskania dokładnej informacji o pojedynczym zwierzęciu lub grupie zwierząt oraz jego lub ich środowisku bytowania
B.U3	label.effect.prefix.skillAbsolwent potrafi przeprowadzać pełne badanie kliniczne zwierzęcia
B.U4	label.effect.prefix.skillAbsolwent potrafi udzielać pierwszej pomocy zwierzętom w przypadku krwotoku, ran, zaburzeń oddechowych, urazów oka i ucha, utraty przytomności, wyniszczenia, oparzenia, uszkodzenia tkanek, obrażeń wewnętrznych i zatrzymania pracy serca
B.U6	label.effect.prefix.skillAbsolwent potrafi pobierać i zabezpieczać próbki do badań oraz wykonywać standardowe testy laboratoryjne, a także prawidłowo analizować i interpretować wyniki badań laboratoryjnych
B.U7	label.effect.prefix.skillAbsolwent potrafi stosować aparaturę diagnostyczną, w tym radiologiczną, ultrasonograficzną i endoskopową, zgodnie z jej przeznaczeniem i zasadami bezpieczeństwa dla zwierząt i ludzi oraz interpretować wyniki badań uzyskane po jej zastosowaniu
B.U11	label.effect.prefix.skillAbsolwent potrafi stosować metody bezpiecznej sedacji, ogólnego i miejscowego znieczulenia oraz oceny i łagodzenia bólu
B.U13	label.effect.prefix.skillAbsolwent potrafi dobierać i stosować właściwe leczenie
B.U14	label.effect.prefix.skillAbsolwent potrafi wdrożyć zasady aseptyki i antyseptyki chirurgicznej oraz stosować właściwe metody sterylizacji sprzętu
B.U19	label.effect.prefix.skillAbsolwent potrafi przeprowadzić dochodzenie epizootyczne w celu ustalenia okresu, w którym choroba zakaźna zwierząt mogła rozwijać się w gospodarstwie przed podejrzeniem lub stwierdzeniem jej wystąpienia, miejsca pochodzenia źródła choroby zakaźnej zwierząt wraz z ustaleniem innych gospodarstw oraz dróg przemieszczania się ludzi, zwierząt i przedmiotów, które mogły być przyczyną szerzenia się choroby zakaźnej do lub z gospodarstwa
B.W1	label.effect.prefix.knowledgeAbsolwent zna i rozumie zaburzenia na poziomie komórki, tkanki, narządu, układu i organizmu w przebiegu choroby
B.W2	label.effect.prefix.knowledgeAbsolwent zna i rozumie mechanizmy patologii narządowych i ustrojowych

Code	Content
B.W3	label.effect.prefix.knowledgeAbsolwent zna i rozumie przyczyny i objawy zmian anatomopatologicznych, zasady leczenia i zapobiegania w poszczególnych jednostkach chorobowych
B.W4	label.effect.prefix.knowledgeAbsolwent zna i rozumie zasady postępowania diagnostycznego, z uwzględnieniem diagnostyki różnicowej, oraz postępowania terapeutycznego
B.W5	label.effect.prefix.knowledgeAbsolwent zna i rozumie zasady przeprowadzania badania klinicznego i monitorowania stanu zdrowia zwierząt
B.W6	label.effect.prefix.knowledgeAbsolwent zna i rozumie sposób postępowania z danymi klinicznymi i wynikami badań laboratoryjnych i dodatkowych
B.W9	label.effect.prefix.knowledgeAbsolwent zna i rozumie zasady zapewniania dobrostanu zwierząt