Code of subject	M_WE_SEM10 CHPK 2
Field of study	Veterinary
Name of the training module including	Diseases of dogs and cats. Block 2
the Polish name	Choroby psów i kotów. Blok 2
Language of instruction	English
Type of the training module	obligatory
Level of the training module	Master level
Form of studies	stationary
Location in the programme (year)	V
Location in the programme (semester)	X
Number of ECTS credits with a division	13 (9/4)
into contact/noncontact	
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,
	Department and Clinic of Animal Reproduction
	Department of Epizootiology and Clinic of Infectious Diseases
Aim of the module	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. In addition, the aim of the
	module is to acquaint students with the knowledge of the course
	and treatment of diseases of the digestive, urinary, locomotor
	and nervous systems of dogs and cats. Students will develop skills
	in performing the stages of clinical diagnostics, interpretation of
	laboratory results, determining treatment modalities and its
	monitoring. The course also presents methods of examination of
	the reproductive system and aspects related to the estrous cycle,
	pregnancy and birth in bitches and cats. The programme is based
	on the knowledge about the diseases of the reproductive system
	as well as conservative and surgical methods of their treatment.
	The student will also learn about contraception in bitches and
	cats and aspects related to kittens and puppies. In addition, an
	essential element of the module is an introduction to infectious
	diseases of dogs and cats, including those that are controlled,
	and management to eliminate and reduce their spread.
Learning outcomes – the total number	Knowledge:
of learning outcomes may not exceed	The student knows and understands:
(4-8) for the module. The description	K1. Aetiology and pathogenesis, diagnostic methods, therapeutic
of the intended learning outcomes	management and prevention of individual diseases in cats and
that a student should achieve after the	dogs.
completion of the module should be	K2. Principles of analysis and proper interpretation of clinical data
provided. The outcomes for all forms	and laboratory test results in individual units concerning
of classes used should be presented.	infectious diseases and reproductive disorders in cats and dogs
	K3. Principles of prevention and treatment of individual internal,

	infectious, reproductive and surgical diseases in cats and dogs.	
	K4. Characteristics of normal reproductive processes and major	
	hormonal regulation of reproduction and mechanisms of	
	reproductive disorders in female cats and dogs.	
	K5. Ways of dealing with suspected or confirmed diseases in cats	
	and dogs that are subject to compulsory eradication.	
	Skills:	
	S1. Collect material for examination and use basic laboratory techniques in the diagnosis and treatment of diseases in cats and dags	
	dogs. S2. Select and administer appropriate chemotherapy taking into	
	account the target species.	
	S3. Maintain the principles of surgical asepsis when preparing for	
	procedures and when participating in surgeries.	
	S4. Assist in surgery, perform simple surgical procedures	
	S5. Recognize, define and explain normal reproductive processes in female cats and dogs and undertake appropriate treatment of reproductive disorders and provide perinatal care.	
	S6. Develop an appropriate regimen for the control and	
	prevention of infectious diseases in cats and dogs and apply the	
	appropriate regulations.	
	S7. 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:	
	<ul><li>C1. Present an attitude in accordance with the principles of the code of ethics of a veterinarian.</li><li>C2. Deepen knowledge and improve skills in the treatment of the</li></ul>	
	internal, orthopaedic and dental diseases of dogs and cats.	
	C3. Critically evaluate one's own decisions and feel responsible	
	for them.	
Preliminary and additional	according to the sequence of subjects	
requirements		
Contents of the training module – a	Dog and Cat Surgery	
compact description of approx. 100	lectures	
words.	1. Head injuries – complications, surgical management.	
	2. Upper airway obstruction – symptoms, indications for	
	surgical treatment.	
	3. Esophageal diseases in small animals – clinical symptoms,	
	diagnosis, treatment.	
	4. Neck region surgery, diagnostics, diagnosis, treatment.	
	5. Chest imaging in a surgical patient.	
	6. Gastric diseases – clinical symptoms, therapeutic	
	<ul><li>management.</li><li>7. Intestinal obstruction – clinical symptoms, indications for</li></ul>	
	surgery.	
	<ol> <li>8. Peritonitis – causes, symptoms, diagnosis and treatment.</li> </ol>	
	9. Diagnostic X-ray of the abdominal cavity and skeletal system	

with elements of computed tomography in a patient before
surgery.
10. Hernias – causes, types of hernias, clinical symptoms, surgical
management.
<ol> <li>Urinary tract obstruction – symptoms, diagnosis.</li> <li>Conservative methods of fracture treatment, biology of</li> </ol>
fracture healing.
13. Indications and methods of surgical treatment of fractures.
Postoperative complications.
14. Joint dislocations in dogs and cats – diagnostics.
15. Radiographic assessment of the knee joint before surgery.
<u>classes</u>
1. Wounds - types of wounds, symptoms, diagnostics and
management.
2. Diseases of the external ear – wounds, haematoma, exposure
of the external auditory canal.
3. Types of hernias, aetiology, method of management, indications, complications.
4. Diseases of the rectal area, aetiology, surgical methods of
treatment.
5. Application of endoscopy in animal diseases.
6. Principles of oncological surgery – indications, technique of
procedures.
7. Laparotomy and abdominal surgery part I.
8. Laparotomy and abdominal surgery part II.
9. Urinary tract diseases in dogs and cats.
10. Diagnostics and surgical treatment of urethral diseases.
11. Diagnostics and treatment of long bone fractures.
12. Conservative methods of fracture treatment. Biology of healing.
13. Intraoperative radiological assessment of limb injuries.
14. Application of computed tomography in head and spinal
injuries.
15. Types and methods of surgical treatment of fractures,
postoperative complications.
Reproduction of dogs and cats
lectures (each lecture 1 hour)
1. Physiology of the estrous cycle in bitches and cats.
2. Neurohormonal regulation of the estrous cycle in bitches and
cats
3. Physiology of pregnancy in bitches and queens
4. Pathology of pregnancy in bitches and queens
5. Postpartum period disorders in bitches and queens
6. Vaginal abnormalities and diseases of the vagina in bitches and queens
7. Diseases of the uterus in bitches and queens
8. Diseases of the ovaries in bitches and queens
9. Mastitis and functional disorders of the mammary gland in

	hitches and success
	bitches and queens
	0. False pregnancy in bitches
	1. Mammary gland tumours in bitches and queens
	2. Fertility disorders in bitches and queens (2 hour lecture)
1	3. Selected diseases of puppies and kittens in the neonatal
	period (2 hour lecture)
	<u>classes (</u> each lasting 2 hours)
1	. Specificity of the structure of reproductive system in dogs
	and cats – practical exercises on isolated organs
2	. Clinical examination of the reproductive system in bitches
	and queens
3	. Physiological birth in bitches and queens
4	. Causes of difficult birth in bitches and queens Conservative
	management of difficult birth in bitches and queens
5	. Caesarean section in bitches and queens
6	. Neonatal health assessment of puppies and kittens, artificial
	rearing of puppies and kittens
7	. Treatment of puppies and kittens in the neonatal period and
	intensive therapy
8	. Cytological and bacteriological examination of the
	reproductive tract of bitches and queens
9	. Determination of the right time for mating or insemination of
	a bitch
1	0. Diagnostics of pregnancy in bitches and queens
1	1. Use of ultrasound in the reproduction of bitches and queens
1	2. Ovariohysterectomy and ovariectomy procedures in bitches
	and queens
1	3. Practical implementation of ovariohysterectomy in bitches
	and queens
1	4. Contraception in bitches and queens
1	5. Perineal, vaginal and mammary gland surgery in bitches and
	queens
1	nternal diseases of dogs and cats
	lectures
1	. Body water management: water spaces, fluid movement,
	recognition of dehydration
2	. Preparation of fluid therapy: amount and type of fluids,
	technical execution, routes and speed of administration
3	. Control of acidosis and alkalosis as an adjunct to fluid therapy
4	. Symptomatology of gastrointestinal diseases. Methods of
	examination and diagnosis of gastrointestinal diseases,
5	. Vomiting – causes and differential diagnosis
6	. Diarrhoea – causes and differential diagnosis,
7	. Acute kidney injury – pathophysiology and diagnosis

8.	Chronic kidney disease – pathophysiology and diagnosis
9.	Therapy of chronic kidney disease in dogs and cats
10.	Examination and symptomatology of diseases of the nervous
	system
11.	Myopathies and arthropathies
12.	Medical course in internal diseases of dogs and cats
	<u>classes</u>
1.	Symptomatology and principles of diagnosing digestive
	system diseases
2.	Diseases of the oral cavity, pharynx and oesophagus
3.	Diseases of the stomach and intestines
4.	Diseases of the liver and pancreas. Diabetes
5.	Acute kidney injury (AKI), causes and diagnosis
6.	Chronic kidney disease (CKD) causes and diagnosis
7.	Diseases of the bladder and urinary tract, causes and
	diagnosis. Urinary calculi
8.	Epilepsy and status epilepticus – diagnosis and treatment;
9.	Inflammation of the brain, spinal cord and meninges
10.	Myopathies and arthropathies – diagnosis and treatment
De	rmatology
	lectures
1.	Structure and function of the skin. Clinical examination of the
	skin, symptomatology and interpretation of changes in
	relation to skin diseases. MSZ
2.	Wood's lamp, hair examination, scraping, Scotch tape test.
3.	Cytologic examination.
4.	Histopathological examination.
5.	Allergy diagnostics.
6.	Dermatoscopy, ultrasound examination of biophysical parameters of the skin.
7.	Complicating dermatoses.
8.	Genetic tests.
9.	Algorithm in non-inflammatory alopecia.
10.	Breed predisposition to skin diseases and news on AD in
	dogs.
11.	Management and treatment of inflammation of the external
	auditory canal.
12.	Dermatological manifestations of systemic diseases.
	<u>classes</u>
1.	Ectoparasitic dermatoses
2.	Dermatomycoses (skin mycoses)
3.	Atopy and atopic dermatitis.
4.	Alergodermatoses.
5.	Autoimmune dermatoses.

	6. Endocrinogenic dermatoses.
	7. Genodermatoses.
	8. Main dermatoses of cats.
	9. Main dermatoses of cats cont.
	Discussion of topographic dermatoses in animals.
	Infectious diseases of dogs and cats
	lectures
	1. Prevention of infectious diseases in dog breeding.
	2. Prevention of infectious diseases in cat breeding.
	3. Basics of vaccinology
	4. Principles of microbiological sampling
	5. Determination of antibody titres in veterinary practice.
	6. Lyme disease, part 1
	7. Lyme disease, part 2
	8. Canine anaplasmosis
	9. Feline anaplasmosis
	10. Canine and feline ehrlichiosis
	11. Arthropod-borne infectious diseases in cats
	12. Canine herpesvirus
	13. Feline mycoplasmosis
	14. Clinical cases, part 1
	15. Clinical cases, part 2
	<u>classes</u>
	1. Canine and feline rabies
	2. Prevention of infectious diseases in dogs
	3. Prevention of infectious diseases in cats
	4. Parvovirus, coronavirus
	5. Measles
	6. Infectious hepatitis in dogs
	7. Leptospirosis
	8. Infectious canine tracheobronchitis
	9. Feline panleukopenia
	10. Feline leukemia (FeLV)
	11. Feline immunodeficiency syndrome (FIV)
	12. Feline infectious peritonitis (FIP)
	13. Cat scratch fever, herpesvirus, calicivirus
	14. Bacterial diseases of the respiratory system of dogs and cats.
	15. Bacterial diseases of the digestive system of dogs and cats.
Recommended and obligatory reading	1. T. Fossum - Small Animal Surgery
list	2. D.Slatter - Textbook of small animal surgery
	3. K.M.Tobias - Manual of small animal soft tissue surgery
	4. S.J.Ettinger, E.C.Feldman, E.Cote - Textbook of veterinary
	internal medicine
	5. T.R.Tams - Handbook of small animal gastroenterology

	C IN Chainer Creall animal gastroonterology
	6. J.M.Steiner - Small animal gastroenterology
	7. G.Simpson - Manual of small animal reproduction and
	neonatology
	8. G.England, A. von Heimendahl -BSAVA Manual of canine and
	feline reproduction and neonatology
	9. D.W.Scott -Muller and Kirk's Small animal dermatology
	10. C.E.Greene - Infectious diseases of the dog and cat
	11. J.E.Sykes - Canine and feline infectious diseases
	12. K.Hartmann, J.Sykes -Canine infectious diseases
	13. L.P.Tilley, F.W.K.Smith - Blackwell's five-minute veterinary
	consult - canine and feline
	Scientific publications indicated by the instructor in the field of
	the discussed educational contents and scientific research
	conducted in the unit.
	Thematic articles in professional journals of small animal
	practitioners.
The intended forms/activities/ teaching	Classes are conducted on the basis of the author's lectures,
methods	multimedia presentations, as well as practical performance of
	clinical diagnostic procedures in the field of taking the medical
	story, clinical examination and making a diagnosis with
	suggestions for treatment. Discussion and solving hypothetical
	clinical situations are also an element of learning.
	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 medical 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.
	Consultations are arranged at the beginning of the semester with
	the course coordinator; this is one hour per week.
Methods of verification and	Dog and Cat Surgery:
documentation forms of the achieved	The student is obliged to prepare from theoretical knowledge
learning outcomes	concerning the planned topic of classes. The degree of the
	student's preparation is evaluated in oral form (student's choice
	and random questions asked by the instructor). Answers to the
	questions are assessed on a grading scale from 2 to 5. Final
	examination – participation in classes (80%) in accordance with
	the current study regulations and the Book of Education Quality
	is a preliminary requirement for taking it. Examination in written
	form with the material from classes and lectures in the form of a
	single-choice test. The test contains 20 questions each assessed
	by one point, a pass of 12 points – 60%. Grading scale:
	·/····································

- 3.0 12-14 pts.
- 4.0 15-17 pts.
- 5.0 18-20 pts.

## Reproduction in dogs and cats:

K – Learning outcomes – discussion; oral test so-called "entrance test" (at the beginning of each class, 5 to 10 students are questioned. Each student is asked 2 questions from the scope of knowledge covered during all previous classes. To get a positive mark, the student must answer at least 60% of each question. The grade from the "entrance test" is the average of the grades for each question, according to the criteria given in the Book of Education Quality. In the case of a failing grade, the student is required to supplement the knowledge and improve the grade within 2 weeks of receiving the failing grade); test exam.

S – Outcomes in the scope of skills – assessment of the correctness of the veterinary activities performed under the supervision of the instructor during the practical classes. Correct performance is recorded as passed.

C – Outcomes in the scope of competences – discussion

The final examination in the form of a test consisting of 45 singlechoice, multiple-choice and open questions, covering the content of education performed during the lectures and classes. A preliminary requirement for obtaining a positive grade from the examination is obtaining 60% of points.

Criteria for obtaining particular grades with a maximum of 45 points possible to obtain:

- 27 pts. 30 pts. sufficient (3.0);
- 30.5 34 pts. sufficient plus (3.5);
- 34.5 38 pts. good (4.0);
- 38.5 42 pts. good plus (4.5);
- 42.5 45 pts. very good (5.0).

## Veterinary dermatology:

A 2-part pass: practical (performance of clinical examination and additional examinations after drawing 3 questions) and a singlechoice test (according to the verification of learning outcomes at the Department of Veterinary Medicine). The passing grade is the arithmetic mean from 2 parts (mean from 2 to 2.75 – failing grade; 2.76 to 3.25 – sufficient; 3.26 to 3.75 – sufficient plus; 3.76 to 4.25 good; 4.26 to 4.75 good plus; 4.76 to 5 very good).

## Infectious diseases of dogs and cats:

A student may have one unexcused absence per semester. In order to be admitted to the final assessment, the student must demonstrate practical skills acquired during classes with the participation of clinic patients. The student is checked for the ability to take history, conduct clinical examination, collect

Balance of ECTS credits	pathological material (blood, faeces, urine, smears) for haematological, biochemical, bacteriological, virological, molecular tests and diagnostic tests. The final test of the course is a single-choice closed test consisting of 60 questions, each scored with 1 point. A maximum of 60 points is achievable. A passing grade requires at least 60%, i.e. at least 36 correct answers. The point thresholds are set in accordance with the guidelines of the Book of Education Quality. Earned grades are entered in the Virtual Dean's Office. <b>CONTACT</b>		
		Hours	ECTS
	lectures	75	3
	classes	135	5,4
	consultations	5	0,2
	partial credit	4	0,16
	exam	6	0,24
	TOTAL contact hours	225	9
	NON-CONT		
	preparation for classes	75	2,6
	preparation for course completion	16	0,64
	preparation for the exam	19	0,76
	TOTAL non-contact hours/ ECTS	110	4
	credits		
Number of contact hours	lectures	75	3
	classes	135	5,4
	consultations	5	0,2
	partial credit	4	0,16
	exam	6	0,24
	TOTAL contact hours	225	9
Relationship between subject learning	K1. – B.W2.+++, B.W6.+++		
outcomes and veterinary studies	K1. – B.W2.+++, B.W6.+++ K2. – B.W3.+++, B.W6.+++		
learning outcomes	K2. – B.W4.+++		
	K3. – B. W4.+++ K4. – B. W2.+++		
	K4. – B. W2.+++ K5. – B. W8.+++		
	S1. – B.U6.+++		
	S2. – B.U10.+++, B.U13.+++		
	S3. – B.U14.+++		
	S4. – B.U4.+++, B.U11.+++		
	S5. – B.U4.+++, B.U13.+++		
	S6. – B.U8.+++		
	S7. – B.U15.+++		
	C1. – K2+++		
	С2. – К8+++		

	СЗ. – К7+++
Impact of selected compounds to final	Dog and Cat Surgery:
grade	The preliminary requirement for passing the examination is the
	attainment of passing grades and attendance in accordance with
	the current study regulations.
	Final grade for the course 100% of the final exam grade.
	Reproduction in dogs and cats:
	Admission to the final exam: full attendance or in accordance
	with the current study regulations + positive grades in all
	"entrance tests" + obtaining a pass in the required practical
	activities.
	Final grade: 100% final exam grade.
	Veterinary dermatology:
	The final grade is a weighted average (module 1 and 2 and final examination).
	Infectious diseases of dogs and cats:
	The final grade is 100% of the final examination grade.
	The final grade for the module "Diseases of Dogs and Cats – Block
	2" is the average of all of the grades given during the completion
	of the module elements, both in Block 1 and Block 2.
	The grades obtained are entered in the Virtual Dean's Office,
	while written assignments are archived for a period of time in
	accordance with the regulations.