Module title: Module Impulge: Farglish	syllabus									
Module lenguage: English	Module title:		ROTATION DOG A	AND CATS DISEAS	ES			EC	TS	6
Module language: English	Polish translation:		STAŻ CHOROBY PSÓW I KOTÓW							
Form ofintramuralintramuralinterest	Course:		Veterinary Medic	cine						
Module coordinator: PhD Magdalena Ostrzeszewicz National		Module language:	English				Stage:	JM-FVM		
Module coordinator: PhD Magdalena Ostrzeszewicz Teachers responsible for the module: Academic teachers of the Institute of Veterinary Medicine; Department of Small Animal Diseases; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study With responsible for the module: MyDepartment of small animal internal diseases Faculty in charge: Faculty of Veterinary Medicine INTERNAL MEDICINE The aim of class is to give students opportunity to get contact with wide range of clinical cases, especially in aspect of diagnosing and readment. Students assists clinicians clinician clinical cases are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinicians clinician classes are discussed by the teacher. Students assists clinician classes in particular, the student is required to acquire practical skills such as: injections, intubation, preparation of a tool takes in the accordination and control and clinician classes. The administration of analytic procedure, surfuring the principles of aseptics during the procedure, surfuring the presence of the accordination of the accordination of blood vessels, surfuring			Type of □ basic ■mandatory			Semester: 10	Semester: 10			
Module coordinator: PhD Magdalena Ostrzeszewicz Academic teachers of the Institute of Veterinary Medicine; Department of Small Animal Diseases; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study With responsible for the module: Paculty in charge: Faculty of Veterinary Medicine Internal. MEDICINE The aim of ideas is to give students opportunity to get contact with wide range of clinical cases, especially in aspect of degrading of the aim of ideas is to give students opportunity to get contact with wide range of clinical cases, especially in aspect of degrading of the aim of ideas is to give students opportunity to get contact with wide range of clinical cases, especially in aspect of degrading of the control of the cases of the case of t						•	Catalogue number:			
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Modes Accordance to the internal legal acts, visiting professors; other specialists in the field of study	Module coordin	ator:	PhD Magdalena (Ostrzeszewicz						
Faculty in charge: Faculty of Veterinary Medicine INTERNAL MEDICINE The aim of class is to give students opportunity to get contact with wide range of clinical cases, especially in aspect of diagnosing and treatment. Students assists clinicians during their work in Small Animal Clinic or shelter. They take part in additional diagnostic procedures and treatment, than clinical cases are discussed by the teacher. SURGERY 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 prisal skills such as injections, intubation, preparation of a tool table for surgery, aseptic preparation of hands for surgery, espetic wearing of gloves, assisting in surgery with observing the principles of aseptics during the procedure, suturing of the skin, ligitation 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 poptrunity to improve selected surgical skills (suture, knot tying, ligation of blood vessels, osteosynthesis) on isolated organs or phantoms. REPRODUCTION The course will provide the knowledge of the specificity of dogs and cats reproduction in comparison to other animal species. Contract of the crucinculum will be implemented in two groups of issues: 1) shology 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 diagnosis in the superculous of their classes of infertility, beads therapeutic methods and procedures, surgical treatment in gynaecology, obstetrics and diseases of dags and cats. 1. The aim of the course is to fami	· ·	nsible for the						es; PhD stu	udents	in :
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a) Laboratory classes; hours 120	INTERNAL MEDICINE The aim of class is to give students opportunity to get co diagnosing and treatment. Students assists clinicians during their work in Small Ani procedures and treatment, than clinical cases are discus SURGERY The aim of the teaching is to teach the students the skill patient for surgical treatment, taking into account the machine procedures. During the classes, in particular, the stude intubation, preparation of a tool table for surgery, asept assisting in surgery with observing the principles of asep vessels, supervision of anaesthesia. The acquisition of the in a personal record of passing the surgical skills. During surgical skills (suture, knot tying, ligation of blood vessel REPRODUCTION The course will provide the knowledge of the specificity species. Content of the curriculum will be implemented of reproduction and obstetrics. The program is conduct include diagnostics of estrous cycle phases, pregnancy of used in gynaecology and obstetrics, contraception (inclutherapeutic methods and procedures, surgical treatmen INFECTIOUS DISEASES 1. The aim of the course is to familiarize students with continuous				heir work in Small Anim linical cases are discussed in the students the skills ing into account the men particular, the student able for surgery, aseptic in the principles of aseptical skills. During control is gation of blood vessels, and the surgical skills. During control is gation of blood vessels, and the program is conducted the phases, pregnancy destance, surgical treatment in the program is conducted to the phases, pregnancy destance, surgical treatment iliarize students with clirifferential diagnosis and course, diagnosis and control is diagnosis and control in the diagnosis and control is in the diagnosis of infulness of ultrasound examples in the diagnosis of infulness of distemper and the course of	al Clinic or shelted by the teacher of examining, dia chod of surgery, is required to a preparation of his during the proabove skills is en asses, students a osteosynthesis) dogs and cats retwo groups of is in the form of pection, physicaling gonadectomy, or gynaecology, or ical cases of rare control.	er. They take part in address. Ignosing particulardise choice of anaesthesia a cquire practical skills suands for surgery, asepticedure, suturing of the forced from each studies have the opportunion isolated organs or perioduction in comparisues: 1) physiology of tractical training. Topic examination, complement, identification of the obstetrics and diseases also occurring infectious of dogs and cats. The appropriate production in comparisues: 1) physiology of tractical training. Topic examination, complement, identification of the obstetrics and diseases and diseases and diseases are production in fectious infectious peritonitis, Responsible to the comparison of the production of the complement of the c	ditional dia ases which and postop uch as: inje tic wearing e skin, ligat dent's grad dity to impr ohantoms. ison to oth reproducti s of practic nentary dia causes of i of mamma diseases of aim of the o AFAST, TFA ubarth's dis age in the o anges in the infectious	gnost qualifications	fy the re s, poves, blood recorded elected mal pathology ining ic methods lity, basic and cats and cats are set as to et BLUE et of kennel rt)

INTERNAL MEDICINE

Practical workshops in the Small Animal Clinic SGGW and animal shelters

Students are entitled to 1h of consultation weekly.

Detailed schedule will be defined by the coordinator of the course at the beginning of semester.

Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester. SURGERY

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. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester

REPRODUCTION

- Methods aimed on teaching practical skills:
 - review medical history,
 - perform a thorough physical examination,
 - select diagnostic and therapeutic procedure,
 - collect and interpret laboratory data,
 - perform basic surgery procedures and anaesthesia protocols
 - choose the right treatment and follow-up protocol
- Consultations (1h/week)

Detailed schedule of the classes and detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester

INFECTIOUS DISEASES

Presentation of clinical cases, scans, ultrasound examinations. Student will independently perform ultrasound examination in AFAST, TFAST, VetBlue and FocusedEcho protocols.

INTERNAL MEDICINE

Anatomy, topographic anatomy, physiology, pathophysiology, clinical and laboratory diagnostic, microbiology, farmacology, toxicology, radiology, internal medicine, general surgery, surgery and anesthesiology of small animal, obstetrics of small animal, epidemiology of small animal

SURGERY

Formal prerequisites and initial requirements:

Teaching methods:

Acquisition by students of knowledge in general surgery, traumatology, including the principles of wound healing, basics of anaesthesiology and pre- and postoperative management. The students have basic theoretical knowledge of anatomy and pathophysiology. Clinical and laboratory radiological diagnostics mastered during classes in previous subjects. REPRODUCTION

Passing the courses: Animal anatomy, Animal physiology, Veterinary pharmacology, Pathomorphology, Diagnostic imaging, Veterinary microbiology, Animal pathophysiology, Clinical and laboratory diagnostics, General surgery and anaesthesiology Knowledge of basics of handling of animals, safety rules, general examination of the animal INFECTIOUS DISEASES

Veterinary epidemiology, Microbiology, Immunology, Virology

Knowledge:

Student knows:

Student knows mechanisms of normal organism's function, causes and mechanisms of disorders on the cellular, tissue, organ, system and organism levels occurring in the internal diseases; how to interpret clinical data, results of the laboratory tests and other diagnostics techniques; diagnostic (including differential diagnostics) and therapeutic procedures; rules of clinical evaluation and animal health monitoring

02 rules of clinical evaluation and animal health monitoring;

03 rules of clinical evaluation and animal health monitoring; causes and symptoms of patomorphological changes, procedures for therapy and prevention in the particular diseases

04 diagnostic (including differential diagnostics) and therapeutic procedures

05 and differentiates the normal and abnormal reproductive mechanisms 06 the clinical manifestations of reproductive mediated diseases and knows

Skills:

Student is able to:

01 handle animals in safe and humane way, and instructs others to do alike; 02 conduct anamnesis in order to acquire precise information on animal or group of animals (heard), and their environment:

03 carry out full clinical evaluation; 04 evaluate nutritional state of the animal and ordains information on proper animal nutrition:

on 5 collect and safeguard the biological material, conduct basic laboratory analyses, properly evaluate and interpret results of laboratory analyses:

06 use diagnostic devices including x-ray, ultrasound, endoscopy, according to its manuals and health and safety regulations concerning animals and humans, interpret the results obtained from those diagnostic devices;
07 acquire and use information on

from those diagnostic devices;
07 acquire and use information on
registered veterinary pharmaceuticals;
08 prescribe and use veterinary
pharmaceuticals and medical

Competences:

Student is ready to:

01 take responsibility for his decisions concerning humans, animals and environment; 02 act within the current standards and ethical obligations, perform actions based on the code of professional ethics, show tolerance to beliefs and behaviour influenced by different sociological and cultural background;

03 utilise unbiassed sources of information:

04 formulate conclusions from personal measurements or observations:

05 formulate opinions regarding various aspects of professional conduct:

06 perform critical self-evaluation, formulate constructive criticism regarding veterinary practice, accept criticism regarding postulated solutions, factual respond to that criticism based on the current scientific knowledge;

Learning outcomes:

other diseases with similar clinical appearance

07 the diagnostic schemes and protocols (including differential diagnosis) for reproductive diseases

08 the therapeutic schemes and protocols recommended for reproductive diseases, pharmacodynamics properties of recommended products and the interactions among medicinal products 09 the occurrence, significance, symptoms and control of rare infectious diseases of dogs and cats presented.

10 infectious diseases in which the use of ultrasound techniques will speed up the diagnosis and introduction of treatment.

materials, including their safe storage and utilisation;

09 choose the treatment adequate for the diagnosed disease;

10 evaluate the need for euthanasia, properly informs the owner of the animal and carry out the euthanasia procedure according to rules and obligations of professional ethics and proper care and utilisation of the body 11 prepare the preventive schemes according to the species specifics; 12 critically analyze veterinary literature and formulate conclusions based on available literature 13 use computer systems and current sources of veterinary knowledge for effective use and process of

information;
14 perform first aid procedures for all animal species for haemorrhage, wounds, respiratory disorders, eye and ear injuries, loss of consciousness, cahexia, burns, tissue injuries, internal injuries and heart block;
15 monitor patient status during surgery and intensive care upon the basic life parameters;

16 implement rules of aseptic and antiseptic surgery procedures, and use proper methods of tools sterilisation; 17 use methods of safe sedation, general and local anaesthesia, and methods for pain evaluation and relief; 18 describe the mechanisms of reproductive diseases

19 use the current nomenclature 20 plan the diagnostic procedures (including differential diagnosis) in the reproductive diseases 21 plan and monitor the treatment

strategies
22 recognize rare infectious diseases,

22 recognize rare infectious diseases, including using laboratory diagnostics 23 adjust the pharmacological treatment to individual infectious diseases

24 control rare infectious diseases 25 perform basic ultrasound examination using AFAST, TFAST, VetBlue and FocusedECHO protocols 07 constantly update knowledge and skills for professional development;

08 communicate with co-workers and share the knowledge; 09 operate under stress and duress;

Student formulates:

10 responsible clinical decisions based primarily on the animal welfare

11 his opinion about understand the onset of the disease, clinical appearance and therapeutic process in the context of normal and abnormal reproductive function

The student is ready to:
12 recognize, plan and conduct
treatment of infectious diseases
13 use basic ultrasound examination
techniques in everyday veterinary
practice

INTERNAL MEDICINE

No extra assessment methods are anticipated.

In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.

SURGERY

Confirmed attendance. Completed traineeship logbooks signed by the teacher leading the rotation group.

Credit is given on the basis of confirmation of the acquisition of selected practical skills during the course of classes. The assessment of practical skills acquisition (preparation of the surgical field, preparation of the instrumental table, aseptic wearing of gloves, intubation, assistance for surgery, vessel ligation, tissue suturing, supervision of anaesthesia) is carried out successively during the clinical examination, surgical treatment or classes on isolated organs or phantoms. The student is obliged to record surgical cases in the traineeship diaries. In addition, a selected group of students (after the division into surgery, internal diseases, reproduction and infectious diseases according to the established key resulting from the division of the internship) performs and presents a detailed description of the selected case of surgical operations.

In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted. No extra assessment methods are anticipated

REPRODUCTION

The full assessment will be accomplished on the basis of combined presents and activity on elective No extra assessment methods are anticipated.

In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.

INFECTIOUS DISEASES

No extra assessment methods are anticipated.

Assessment methods:

	In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be						
	adopted.						
	INTERNAL MEDICINE						
	eHMS entry.						
	Records collected in the Student's Daybook of Summer Practice and Clinical Training, presence lists, written assessments of						
	the students SURGERY						
	An entry in the training card confirming the performance of a specific activity: preparation of the operating field, preparation						
	of the instrument table, aseptic wearing of gloves, intubation, assistance for surgery, vessel ligation, suturing of tissues,						
	supervision of anaesthesia. In case of designated persons (according to the above key) - a detailed description of the selected						
Formal desumentation of learning	clinical case togeth	er with a description	on of surgical treatm	ient.		·	
Formal documentation of learning outcomes:	eHMS entry.						
outcomes.	Records collected in the course portfolio i.e. individual records of student results, presence lists, database of oral and written						
	questions, written assessments of the students						
	REPRODUCTION						
	eHMS entry.						
	Records collected in the course portfolio (general rules of the course) INFECTIOUS. DISEASES						
	eHMS entry.						
	Records collected in the Student's Daybook of Summer Practice and Clinical Training, presence lists, written assessments of						
	the students						
	Final grade under conditions:						
	1. Positive grade from internal, surgery, obstetrics ang infectious diseases accordingly to specific demendings.						
	2. Positive grade from rotation paper work						
	- 4 pages A4 computer printout						
	- Self-contained work of student (not reprint)						
	- One work could be prepared by 4 students maximum						
	- Detailed informations students can get from responsible teachers from appropriate divisions.						
Elements impelling final grade:	Obligatory one night shift in Small Animal Clinic Final grade in eHMS is medial from 4 subjects and paper work						
	4. Thial grade in entitions is the dial from 4 subjects and paper work						
	grade	3.0	3.5	4.0	4.5	5.0	
	Points from	3.0-3.25	3.26-3.75	3.76-4.25	4.26-4.75	4.76-5.0	
	medial value						
Teaching base:	Clinic of Small Anim	nals SGGW, cooper	ating outside units (eg. shelter)	•		

Mandatory and supportive materials:

- S. Birchard, R. Sherding: "Saunders Manual of Small Animal Practice", 3rd edition
- J. Eliott, G. Grauer: "BSAVA Manual of Canine and Feline Nephrology and Urology", 2nd edition
- S. Ettinger, E. Feldman: "Textbook of Veterinary Internal Medicine", 7th edition
- E. Hall, JW. Simpson, D. Williams: BSAVA Manual of Canine and Feline Gastroenterology" 2nd edition
- R. Nelson, C. Couto: "Small Animal Internal Medicine", 4th edition
- Platt. S., Olby N.: "BSAVA Manual of Canine and Feline Neurology", 2nd edition
- J. Steiner: "Small Animal Gastroenterology", 2008
- Small Animal Surgery by Theresa Welch Fossum ELSEVIER 2018
- Johnston S and all. Canine and Feline Theriogenology, 2001
- Dreier, K.-H., 2009: Klinik der Reproduktionsmedizin des Hundes. Schlutersche Verlagsgesellschaft
- Noakes, D., 2009:Veterinary Reproduction and Obstetrics. W.B. Saunders Company
- Long, S., 2006: Veterinary Genetics and Reproductive Physiology, Butterworth Heinemann.
- C.E. Greene, Infectious Diseases of the Dog and cat. ed.: IV edition, 2012, Elsevier
- E. Thiry: Clinical Virology of the Dog and Cat, , 2006, Les Editions du Point Veterinaire
- Focused Ultrasound Techniques for the Small Animal Practitioner" Gregory R. Lisciandro, 2013

Supportive

E. Thiry: Clinical Virology of the Dog and Cat, , 2006, Les Editions du Point Veterinaire

 $\label{lem:conditions} \textbf{Relevant scientific publications, including those of the module coordinator.}$

ANNOTATIONS

compliance with health and safety rules, protective apron

Records collected in the course portfolio (general rules of the course)

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:	120h
Total ECTS points, accumulated by students during contact learning:	6 ECTS

Outcome category	Learning outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes (each)	
	Student knows mechanisms of normal organism's function, causes	B.W.1, B.W 2	2	
Knowledge -01	and mechanisms of disorders on the cellular, tissue, organ, system	B.W 3, B.W.4, B.W.5, B.W.6	3	
	and organism levels occurring in the internal diseases; how to			
	interpret clinical data, results of the laboratory tests and other			
	diagnostics techniques; diagnostic (including differential			
	diagnostics) and therapeutic procedures; rules of clinical evaluation			
	and animal health monitoring;			
	Student knows rules of clinical evaluation and animal health			
Knowledge- 02		B.W.5	2	
	monitoring;			
	Student knows causes and symptoms of patomorphological			
Knowledge - 03	changes, procedures for therapy and prevention in the particular	B.W.3	2	
	diseases;			
Knowledge - 04	Student knows diagnostic (including differential diagnostics) and therapeutic procedures;	B.W.4	3	
Knowledge 05	Student knows and differentiates the normal and abnormal	B.W.1; B.W.2	3	
Kilowiedge 05	reproductive mechanisms	B.W.3	2	
	Student knows the clinical manifestations of reproductive and	B.W.4; B.W.5	3	
Knowledge 06	knows other diseases with similar clinical appearance	B.W.6; B.W.9	2	
		B.W.4	3	
Knowledge 07	Student knows the diagnostic schemes and protocols (including differential diagnosis) for reproductio diseases	B.W.5; B.W.6; B.W.9	2	
Knowledge 08	Student knows the therapeutic schemes and protocols recommended for reproductive diseases, pharmacodynamic properties of recommended products and the interactions among medicinal products	B.W.6	2	
Knowledge 09	Student knows the occurrence, significance, symptoms and control	B.W.4 B.W.5	3 3	
	of rare infectious diseases of dogs and cats presented.			
Knowledge 10	Student knows infectious diseases in which the use of ultrasound techniques will speed up the diagnosis and introduction of treatment.	B.W.4	3	
Skills 01	Student is able to handle animals in safe and humane way, and instructs others to do alike;	B.U.1	2	
Skills 02	Student is able to conduct anamnesis in order to acquire precise information on animal or group of animals (heard), and their environment;	B.U.2	3	
Skills 03	Student is able to carry out full clinical evaluation;	B.U.3	3	
Skills 04	Student is able to perform first aid procedures for all animal species for haemorrhage, wounds, respiratory disorders, eye and ear injuries, loss of consciousness, cahexia, burns, tissue injuries, internal injuries and heart block;	orrhage, wounds, respiratory disorders, eye and ear oss of consciousness, cahexia, burns, tissue injuries,		
Skills 05	Student is able to monitor patient status during surgery and intensive care upon the basic life parameters;	B.U.12	2	
Skills 06	Student is able to implement rules of aseptic and antiseptic surgery procedures, and use proper methods of tools sterilisation;	B.U.14	3	
Skills 07	Student is able to use methods of safe sedation, general and local anaesthesia, and methods for pain evaluation and relief;	B.U.11	2	
Skills 08	Student is able to use the current nomenclature	B.U.2, B.U.9	3	
	State it is able to use the current nomencialure	B.U.5; B.U.7	2	
Skills 09	Student is able to plan the diagnostic procedures (including differential diagnosis) in the reproductive diseases	B.U.2 B.U.1; B.U.7	2	
	amerential diagnosis, in the reproductive diseases	·		
Skills 10	Student is able to plan and monitor the treatment strategies	B.U.10; B.U.13 B.U.15; B.U.20	3 2	
Skills 11	Student is able to recognize rare infectious diseases, including using laboratory diagnostics	B.U.2 B.U.3	3 3	
	Student is able to adjust the pharmacological treatment to	B.U.13	3	

Skills 13	Student is able to control rare infectious diseases	B.U.19	3
Skills 14	Student is able to perform basic ultrasound examination using AFAST, TFAST, VetBlue and FocusedECHO protocols	B.U.7	3
Competences 01	student is ready to take responsibility for his decisions concerning humans, animals and environment;	KS.1	2
Competences 02	Student is ready to act within the current standards and ethical obligations, perform actions based on the code of professional ethics, show tolerance to beliefs and behaviour influenced by different sociological and cultural background;	KS.2	1
Competences 03	Student is ready to use unbiassed sources of information	KS.3	1
Competences 04	student is ready to formulate conclusions from personal measurements or observations;	KS.4	1
Competences 05	student is ready to formulate opinions regarding various aspects of professional conduct;	KS.5	2
Competences 06	student is ready to formulate opinions regarding various aspects of professional conduct;	KS.6	2
Competences 07	student is ready to perform critical self-evaluation, formulate constructive criticism regarding veterinary practice, accept criticism regarding postulated solutions, factual respond to that criticism based on the current scientific knowledge;	KS.7	1
Competences 08	Student is ready to constantly update knowledge and skills for professional development;	KS.8	2
Competences 09	Student is ready to communicate with co-workers and share the knowledge;	KS. 9	2
Competences 10	student is ready to operate under stress and duress;	KS.10	2
Competences 11	Student formulates responsible clinical decisions based primarily on the animal welfare	KS.1; KS.2; KS.3; KS.6; KS.7; KS.9	2
Competences 12	Student formulates his opinion about understand the onset of the disease, clinical appearance and therapeutic process in the context of normal and abnormal immune functions	KS.4; KS.5; KS.6; KS.8	2
Competences 13	Student formulates the necessity of constant education using scientific sources	KS.4; KS.5; KS.6;KS.7; KS.8	2
Competences 14	Student is ready to recognize, plan and conduct treatment of infectious diseases	K.S.1 K.S.8	3 2
Competences 15	Student is ready to use basic ultrasound examination techniques in everyday veterinary practice	K.S.1 K.S.8	2 2