

Syllabus

Module title:	Dog and cat reproduction	ECTS	3
Polish translation:	Rozród psów i kotów		
Course:	Veterinary Medicine		

Module language:	English	Stage:		JM-FVM
Form of studies:	<input checked="" type="checkbox"/> intramural <input type="checkbox"/> extramural	Type of module:	<input type="checkbox"/> basic <input checked="" type="checkbox"/> directional <input checked="" type="checkbox"/> mandatory <input type="checkbox"/> elective	Semester: 9 <input checked="" type="checkbox"/> winter semester <input type="checkbox"/> summer semester
Academic year:			Intake 2020/2021	Catalogue number: FVM-V-JMSS-09W-D19/3_20

Module coordinator:	Professor Piotr Jurka PhD, DVM,
Teachers responsible for the module:	Academic teachers of the Institute of Veterinary Medicine; Department of Small Animal Disease and Clinic; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study
Unit responsible for the module:	Institute of Veterinary Medicine, Department of Small Animal Diseases and Clinic
Faculty in charge:	Faculty of Veterinary Medicine

Objectives of the module:	<p>As part of the course, knowledge about the specifics of breeding dogs and cats compared to other animal species will be provided. The main goal is to master theoretical knowledge and acquire practical skills related to the reproduction of dogs and cats. The content of lecture education is a supplement to the content of practical training.</p> <p>Lectures (each 2 hours) Puberty, hypothalamo-hypophyseal-gonadal axis, hormonal regulation of ovarian activity, differences between dogs and cat Hormones and antibodies in clinical endocrinology of bitches and queens Reproduction, fertilization and embryonic development Endocrinology of pregnancy, carnivore placenta, fetal development Ovarian functional disorders and diseases in the bitch and queens Pathogenesis of uterine diseases - cystic degeneration, EPC Pathogenesis of vaginal diseases –vaginitis, vaginal prolapse Pathology of pregnancy Parturition in small animals Dystocia, methods of obstetric treatment Neonatology – examination and treatment of newborns Neonatology – pathology of neonatal period Postpartum period Diseases of mammary gland</p> <p>Practical training (each 3 hours) Specificity of female genital organs morphology in carnivores, resected genital organs, technique of clinical examination Determination of the oestrous cycle phases and optimal time for mating Pharmacological and immuno- contraception – presentation of methods and drugs Orchiectomy of the dog and tomcat Surgical sterilization of the bitch and queen Diagnostic and treatment of vaginal diseases Diagnostics and treatment of ovarian and uterine diseases Conservative obstetric aid and caesarean section Healing treatments for puppies / kittens and intensive care Diagnosing and treating the most common infectious and non-infectious disease entities in puppies and kittens Diagnostics and treatment of postpartum diseases Surgery of the mammary gland</p>
Teaching forms, number of hours:	a) Lectures – 15 h b) Practical training - 35 hours
Teaching methods:	The course is conducted in the form of lectures and practical training. Lectures in the form of original multimedia presentations, including practical and clinical aspects, exercises with the use of patients of the Small Animal Clinic, didactic animals and biological material. During the course, students participate in therapeutic procedures, gynaecological and obstetric operations, mammary gland surgery. Multimedia teaching programs using the SEKTRA educational table are also used.

	<ul style="list-style-type: none"> • Consultations (1h/week) <p>Detailed schedule of the classes and detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.</p>																
Formal prerequisites and initial requirements:	<p>Passing the courses: Animal anatomy, Animal physiology, Veterinary pharmacology, Pathomorphology, Diagnostic imaging, Veterinary microbiology, Animal pathophysiology, Clinical and laboratory diagnostics, General surgery and anaesthesiology</p> <p>Knowledge of basics of handling of animals, safety rules, general examination of the animal</p>																
Learning outcomes:	<p>Knowledge: Students knows;</p> <ul style="list-style-type: none"> - differentiates the normal and abnormal reproductive mechanisms - the clinical manifestations of reproductive mediated diseases and knows other diseases with similar clinical appearance - the diagnostic schemes and protocols (including differential diagnosis) for reproduction disorders -the therapeutic schemes and protocols recommended for reproductive diseases, pharmacodynamics properties of recommended products and the interactions among medicinal products 	<p>Skills: Student is able to;</p> <ul style="list-style-type: none"> - describe the mechanisms of reproductive diseases - to use the current nomenclature - plan the diagnostic procedures (including differential diagnosis) in the reproductive diseases - plan and monitor the treatment strategies 	<p>Competences: Student formulate;</p> <ul style="list-style-type: none"> - responsible clinical decisions based primarily on the animal welfare - his opinion about understand the onset of the disease, clinical appearance and therapeutic process in the context of normal and abnormal reproductive functions - the necessity of constant education using scientific sources 														
Assessment methods:	<p>Practical effects are verified during clinical classes based on correctly performed medical and veterinary activities under the supervision of the teacher. The correct performance of the activity is recorded as completed. The condition of joining the theoretical final credit is obtaining confirmation of the correct performance of the required practical activities.</p> <p>Final exam in the form of a single-choice test. The test consists of 80 questions with 4 proposed answers, covering the content of education in lectures and practical training.</p> <p>The student must obtain a minimum of 56 points to pass the test.</p> <p>Grading scale:</p> <table border="1" data-bbox="459 1025 1311 1279"> <thead> <tr> <th>Number of points</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>Below 56</td> <td>2 (insufficient - the course is failed)</td> </tr> <tr> <td>56- 61</td> <td>3 (sufficient)</td> </tr> <tr> <td>62-66</td> <td>3+ (sufficient +)</td> </tr> <tr> <td>67-71</td> <td>4 (good)</td> </tr> <tr> <td>72-76</td> <td>4+ (very good)</td> </tr> <tr> <td>77-80</td> <td>5 (excellent)</td> </tr> </tbody> </table> <p>No extra assessment methods are anticipated.</p> <p>In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p>			Number of points	Grade	Below 56	2 (insufficient - the course is failed)	56- 61	3 (sufficient)	62-66	3+ (sufficient +)	67-71	4 (good)	72-76	4+ (very good)	77-80	5 (excellent)
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Formal documentation of learning outcomes:	<p>eHMS entry.</p> <p>Records collected in the course portfolio (individual student assessment cards, attendance lists, pool of written questions, students' essays, general rules of the course</p>																
Elements impelling final grade:	<p>Admission for final test:</p> <p>The number of absences from classes in accordance with the study regulations as admission to the test + obtaining credit for practical training.</p> <p>Final grade: 100% final score</p>																
Teaching base:	<p>Laboratories and surgery room of the Veterinary Medicine Institute</p>																
<p>Mandatory and supportive materials :</p> <ol style="list-style-type: none"> 1. Johnston S and all. Canine and Feline Theriogenology, 2001 2. Dreier, K.-H., 2009: Klinik der Reproduktionsmedizin des Hundes. Schlutersche Verlagsgesellschaft 3. Noakes, D., 2009: Veterinary Reproduction and Obstetrics. W.B. Saunders Company 4. Long, S., 2006: Veterinary Genetics and Reproductive Physiology, Butterworth Heinemann. 																	
<p>ANNOTATIONS</p> <p>For reasons of occupational health and safety at the operating theatre in the Small Animal Clinic, the students should wear medical long pants and sweatshirts or aprons with short (non-elbow-long sleeves) and have with them: a surgical mask and cap, changed footwear or shoe covers with flat heels.</p>																	

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:	90 h
Total ECTS points, accumulated by students during contact learning:	2 ECTS

Learning outcomes of the module relative to the learning outcomes of the subject:

Outcome category	Learning outcomes:	Learning outcomes relative to the course outcomes	Impact on the each for course outcomes
Knowledge – K.1	- Student knows and differentiates the normal and abnormal reproductive mechanisms	B.W.1;B.W.2 B.W.3	3 2
Knowledge – K.2	- Student knows the clinical manifestations of reproductive and knows other diseases with similar clinical appearance	B.W.4; B.W.5 B.W.6; B.W.9	3 2
Knowledge – K.3	- Student knows the diagnostic schemes and protocols (including differential diagnosis) for reproduction disorders	B.W.4 B.W.5; B.W.6; B.W.9	3 2
Knowledge – K.4	-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
Skills –S.1	Student is able to describe the mechanisms of reproductive diseases	B.U.4 B.U.7; B.U. 9	3 2
Skills – S.2	-Student is able to use the current nomenclature	B.U.2, B.U.9 B.U.5; B.U.7	3 2
Skills – S.3	- 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 1
Skills – S.4	- plan and monitor the treatment strategies	B.U.10; B.U.13 B.U.15; B.U.20	3 2
Competences – C.1	Student formulate responsible clinical decisions based primarily on the animal welfare	KS.1; KS.2; KS.3; KS.6; KS.7; KS.9	2
Competences –C.2	-Student formulate 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- C.3	Student formulate the necessity of constant education using scientific sources	KS.4; KS.5; KS.6; KS.7; KS.8	2