Module code	M_WE_SEM11 PW 1I/2I DIAG ENDO		
Field of study	Veterinary medicine		
Module name	Endoscopic diagnostics		
	Diagnostyka endoskopowa		
Language of instruction	English		
Module type	elective		
Level of studies	Long-cycle Master's degree programme		
Mode of study	Full-time		
Year of study in the field of study	VI		
Semester of study in the field of	XI		
study			
ECTS credits, divided into	1 (0.6/0.4)		
contact/non-contact hours			
Academic title/degree, name of the	dr. n. vet. Krzysztof Buczek		
person responsible for the module			
Unit teaching the module	Department of Epizootiology and Clinic of Infectious Diseases		
Module objective	Providing students with knowledge regarding the rationale for performing endoscopic examinations, indications based on history, clinical examination, and laboratory and imaging diagnostics. Teaching how to perform procedures safely. Principles of evaluation of organs under study and indications for diagnostic sampling will be presented. The material that will be presented to students is intended to broaden their knowledge of the most common diseases of individual systems and develop their manual skills in the use of specialized equipment: videogastroscope, videobronchoscope, rigid optics and fiberscopes. The course will include gastroscopy, bronchoscopy, rhinoscopy, otoscopy, and cystoscopy procedures in various animal species.		
The learning outcomes for the	Knowledge:		
module include a description of the knowledge, skills and social competences that the student will gain after completing the module.	W1. Knows how to gather and evaluate information from the owner, analyze the results of previous diagnostic studies, and make a decision on the need for an endoscopic examination based on this information. W2. Is knowledgeable about minimally invasive techniques in veterinary medicine and is aware of the ongoing development of these techniques and their benefits to the patient. W3. Has knowledge of the latest capabilities of endoscopic		
	diagnostics and the performance of minimally invasive procedures. Skills: U1.Knows how to select anesthesia for the endoscopic procedure being performed to ensure adequate analgesia for the animal. U2. Is able to select the appropriate method of endoscopic diagnostics to make the diagnosis as quickly as possible and limit adverse effects on the patient. Social competences: K1. Is able to perform the endoscopic procedure to make the		
	correct diagnosis.		

K3. Is held responsible for preparing the test result and is able to discuss it and explain the results to the owner. K4. Understands the limitations of endoscopic techniques and puts the patient's welfare first; K5. Is able to lead the team work in order to ensure the best possible efficiency of the procedures performed and to ensure safety; Prerequisites and additional requirements Module programme content Indications for endoscopic examination and required additional tests, preparation of the patient for the procedure. Structure and operation of endoscopes; Rhinoscopy - examination technique, nasal structure and areas available for examination, most common lesions. Bronchoscopy - examination technique, normal images and the most common conditions found. Gastroscopy - examination technique, normal structure and pathological states, macroscopic evaluation, assessment of organ structures. Cystoscopy - examination technique, the most common pathological conditions. Endoscopic examination in livestock - discussion of differences in examination technique; Follow-up examination in livestock - discussion of differences in examination technique; Follow-up examinations and specimen collection technique (smears, BAL, biopsies). Methods of foreign body removal. Students will become familiar with advances in knowledge of minimally invasive procedures and global trends in the discipline. Practical performance of endoscopic procedure: gastroscopy, bronchoscopy, rhinoscopy, otoscopy and cystoscopy in various animal species. List of core and supplementary literature 1. Tams T. Small Animal Endoscopy, Elsevier, 1998. 2. McCarthy T. C.: Veterinary Endoscopy for the Small Animal Practitioner, Elsevier, 2007. 3. Slovis N.M.: Atlas of Equine Endoscopy Mosby, 2004. 4. Scientific papers Multimedia presentations, films and photos from procedures, demonstrations of specialized equipment, discussion, practical classes - participation in procedures, discussion of clinical		K2. Selects the most beneficial solutions for the patient.		
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The workload of activities that require direct participation of module learning outcomes to major learning outcomes to major learning outcomes Total		beginning of each laboratory class, w	ritten colloqu	ia.		
CONTACT		A student must not have more than 1h of absence from				
Hours ECTS		theory classes.				
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Participation in a minimum of 3 practical procedures -						
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