

## Syllabus

Module title:	Ultrasound diagnostic in companion animals	ECTS	1
Polish translation:	Diagnostyka ultrasonograficzna u zwierząt towarzyszących		
Course:	<b>Veterinary Medicine</b>		

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 type="checkbox"/> mandatory <input checked="" type="checkbox"/> elective	Semester: 11	<input checked="" type="checkbox"/> winter semester <input type="checkbox"/> summer semester
Academic year:	2023-2024	Catalogue number:	FVM-V-JMSS-11W-ED16_23

Module coordinator:	<b>Dr hab. Sławomir Giziński</b>		
Teachers responsible for the module:	<b>Academic teachers of the Institute of Veterinary Medicine; Department of Large Animal Diseases with Clinic; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study</b>		
Unit responsible for the module:	<b>Institute of Veterinary Medicine; Department of Large Animal Diseases with Clinic</b>		
Faculty in charge:	<b>Faculty of Veterinary Medicine</b>		
Objectives of the module:	During the course students obtain basic knowledge about various method of ultrasound examination in companion animals as dogs, cats, horses and exotic pets		
Teaching forms, number of hours:	a) Clinical laboratories - 15 hours;		
Teaching methods:	Students will work in a team during classes. During the classes, films, presentations, preparations, equipment and examinations will be presented. Selected clinical cases will be analysed. Consultations for students 1h / week. 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.		
Formal prerequisites and initial requirements:	Equine internal diseases, internal diseases of small animals, surgery of small animals, pathophysiology, equine reproduction		
Learning outcomes:	<p><b>Knowledge:</b> Student knows how to use USG machines Student knows goals of the USG examination in pets and horses Student knows principles of most common examination technique (transrectal, transabdominal using various types of probes)</p>	<p><b>Skills:</b> Student uses ultrasound diagnostic methods used in small animals</p>	<p><b>Competences:</b> Able to work in a team, makes a diagnosis independently, Good communication with the animal owner/keeper, Independently makes clinical diagnosis</p>
Assessment methods:	The basis for completing the course is the presence and active participation in the implementation of the curriculum, the correct implementation of all the procedures presented. Case report has to be completed by each student. 20% of absence is allowed in accordance with the study regulations. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.		
Formal documentation of learning outcomes:	eHMS entry. 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.		
Elements impelling final grade:	To verify the learning outcomes: 1. attendance at exercises 50% 2. case report 50%		
Teaching base:	Infrastructure of the Department of Large Animal Diseases with Clinics		
Mandatory and supportive materials :	<ol style="list-style-type: none"> <li>1. Small Animal Diagnostic Ultrasound 3th edition. J.S Matoon, T.G Nayland. Elsevier 2015.</li> <li>2. Equine Diagnostic Ultrasound. V.B Reef . Saunders 1998.</li> <li>3. Atlas of equine ultrasonography. J.A. Kidd, K.G. Lu, M. L. Frazer. Wiley Blackwell 2014.</li> <li>4. Diagnostic Radiology and Ultrasonography of the Dog and Cat, 5th Edition. J.K. Kealy, H. McAllister, J.P. Graham, Elsevier 2010.</li> <li>5. Diagnostic Imaging of Exotic Pets: Birds, Small Mammals, Reptiles. M.E. Krautwald-Junghanns, M. Pees, S. Reese, T. Tully. Schluetersche 2010.</li> </ol>		
ANNOTATIONS	During clinical and laboratory classes, protective clothing is required: apron and covered footwear.		

### 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:	15 h
Total ECTS points, accumulated by students during contact learning:	1 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 course outcomes*)
Knowledge -	Student knows how to use USG machines	B.W.4, B.W.6	3
Knowledge -	Student knows goals of the USG examination in pets and horses	B.W.4	3
Knowledge -	Student knows principles of most common examination technique (transrectal, transabdominal using various types of probes)	B.W.4	3
Skills -	Student uses ultrasound diagnostic methods used in small animals	B.U.7	3
Competences -	The student is ready to work in a team; Good communication with the animal owner / keeper	KS.3; KS.10	3
Competences -	Independently makes clinical diagnosis	KS.4; KS.5	3