Code of subject	M_WE_SEM11 PW 1J/2J TOM KOMP
Field of study	Veterinary medicine
Name of the training module including the Polish name	Computed tomography in clinical practice Tomografia komputerowa w praktyce klinicznej
Language of instruction	English
Type of the training module	Elective
Level of the training module	Master level
Form of studies	Stationary
Location in the programme (year)	VI
Location in the programme (semester)	XI
Number of ECTS credits with a division into contact/noncontact	1 (0.64/0.36)
Name and surname of the person in charge	dr n. wet. Anna Łojszczyk
Unit offering the subject	Laboratory of Radiology and Ultrasonography
Aim of the module	Getting to know modern diagnostic imaging methods, which are currently essential diagnostic procedures. Mastering theoretical knowledge and practical skills in the field of computed tomography, allowing for the realisation of veterinary practice in accordance with obligatory standards.
Learning outcomes	Knowledge
	W1.Student knows the principles of the formation of tomographic images.
	W2. Student has knowledge about the possibilities of use and benefits of computed tomography implementation.
	Skills
	U1. Student can interpret tomographic images and recognize diseases in small animals using computed tomography skills
	Social competences
	K1. Student is ready to accurately recognize facts, phenomena, processes and make wise decisions.
	K2. Student is ready to learn and improve his skills throughout his working life
	K3 Student is aware of the responsibility towards people and animals for the use of ionizing radiation, which is harmful to health
Preliminary and additional requirements	

<table>
<tr><td>Contents of the training module – a compact description</td><td colspan="3">Radiation protection. Technical aspects of performing tomographic examination. Placing the patient for examination, performing the examination, technical evaluation, artifacts. Basic principles of tomographic examination of small animals, physiological and pathological images. Head tomographic image: nasal cavity, frontal sinuses, oral cavity, mandible, maxilla, dental apparatus. Temporomandibular joints, eyeball, salivary glands, middle, inner and outer ear, lymph nodes. Throat, lymph nodes. Central nervous system, spine, spinal cord. Chest: lungs, trachea, bronchi, cardiovascular system, mediastinum, pleura, chest wall. Abdominal cavity: liver, spleen, pancreas, digestive tract. Genitourinary system, adrenal glands. Thoracic and abdominal lymph nodes. Joints. Contrast tests in computed tomography.</td></tr>
<tr><td>Recommended and obligatory reading list</td><td colspan="3">1. Schwarz T., Saunders J. (Ed). Veterinary Computed Tomography. Wiley-Blackwell 2011.
2. Wisner E., Zwingenberger A.: Atlas of small animal CT and MRI. Wiley Blackwell 2011.</td></tr>
<tr><td>The intended forms/activities/ teaching methods</td><td colspan="3">Practical presentation of research
Self-interpretation of images
Studying Recommended Literature
Discussion</td></tr>
<tr><td>Methods of verification and documentation forms of the achieved learning outcomes</td><td colspan="3">K - Completion of the semester is based on positive results from one written test in the form of a test (10 choice questions) and obtaining a minimum of 60% correct answers.
S - assessment of the ability to interpret tomographic images by the person conducting the classes, during the course
C - participation in discussions during the classes</td></tr>
<tr><td rowspan="12">ECTS points</td><td>CONTACT</td><td>hours</td><td>ECTS</td></tr>
<tr><td>Classes</td><td>15</td><td>0,52</td></tr>
<tr><td>Consultation</td><td>3</td><td>0,12</td></tr>
<tr><td>Credit</td><td>18</td><td>0,64</td></tr>
<tr><td colspan="3">NON-CONTACT</td></tr>
<tr><td>Preparation for exercises</td><td>5</td><td>0,2</td></tr>
<tr><td>Literature study</td><td>4</td><td>0,16</td></tr>
<tr><td>Total</td><td>9</td><td>0,36</td></tr>
<tr><td>Classes</td><td>15</td><td>0,52</td></tr>
<tr><td>Consultation</td><td></td><td></td></tr>
<tr><td>Credit</td><td>3</td><td>0,12</td></tr>
<tr><td>Total</td><td>18</td><td>0,64</td></tr>
<tr><td>Relationship between subject learning outcomes and veterinary studies learning outcomes</td><td colspan="3">K1- WE_W17 ++ , WE_W18 ++
K2- WE_W21 ++
S1- WE_U2 ++ ,WE_U8D ++, W_U20 ++
Sc1- WE_K5 ++
Sc2- WE_K6++
Sc3- WE_K1++</td></tr>
<tr><td>Impact of selected compounds to final grade</td><td colspan="3">Final written credit, activity in the classroom, attendance</td></tr>
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