| Module code | M_WE_SEM11 PW 1J/2J TOM COMP | | |
|-------------------------------------|---|--|--|
| Field of study | Veterinary medicine | | |
| Module name, also the name in | Computed tomography in clinical practice | | |
| English | Tomografia komputerowa w praktyce klinicznej | | |
| Language of instruction | English | | |
| Module type | Elective | | |
| Level of studies | Long-cycle Master's Degree studies | | |
| Mode of study | full-time | | |
| Year of study in the field of study | V | | |
| Semester of study in the field of | XI | | |
| study | | | |
| ECTS credits, divided into | 1 (0.64/0.36) | | |
| contact/non-contact hours | | | |
| Academic title/degree, name of the | dr. n. vet. Anna Łojszczyk | | |
| person responsible for the module | | | |
| Unit teaching the module | Laboratory of Radiology and Ultrasonography | | |
| Module objective | Becoming familiar with modern diagnostic imaging modalities | | |
| - | that are now among the essential diagnostic procedures. | | |
| | Mastery of theoretical knowledge and practical skills in computed | | |
| | tomography to enable veterinary practice according to effective | | |
| | standards | | |
| The learning outcomes for the | Knowledge: | | |
| module include a description of the | W1. Knows the principles of tomographic image formation. | | |
| knowledge, skills and social | W2. Has an understanding of the uses and benefits of CT scans. | | |
| competences that the student will | Skills: | | |
| gain after completing the module. | U1. is able to interpret CT images and diagnose small animal | | |
| | diseases using CT scans. | | |
| | Social competences: | | |
| | K1. Is ready to accurately identify facts, phenomena, processes | | |
| | and make prudent decisions. | | |
| | K2 Is ready to learn and hone its skills throughout its professional | | |
| | life | | |
| | K3. is aware of the responsibility towards humans and animals for | | |
| | the use towards them of ionizing radiation which is harmful to | | |
| | health | | |
| Prerequisites and additional | | | |
| requirements | | | |
| Module programme content | Radiation protection. Technical aspects of performing a CT scan. | | |
| | Patient's positioning for examination, examination performance, | | |
| | technical evaluation, artifacts. Basic principles of tomographic | | |
| | examination of small animals, normal images and in disease | | |
| | states. Head CT image: nasal cavity, frontal sinuses, oral cavity, | | |
| | mandible, maxilla, braces. Temporomandibular joints, eyeball, | | |
| | salivary glands, middle ear, 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, gastrointestinal tract. Genitourinary system, adrenal | | |
| | glands. Thoracic and abdominal lymph nodes. Joints. Contrast | | |
| | studies in computed tomography. | | |
| | staales in compated comography. | | |

| List of core and supplementary | 1. Schwarz T., Saunders J. (Ed). | Veterinary | Computed |
|-------------------------------------|--|------------|----------|
| literature | Tomography. Wiley-Blackwell 2011. | | |
| | 2. Wisner E., Zwingenberger A.: Atlas of small animal CT and | | |
| | MRI. Wiley Blackwell 2011. | | |
| Planned forms/activities/teaching | Practical presentation of research | | |
| methods | Independent interpretation of images | | |
| | Studying the recommended literature | | |
| | Discussion | | |
| Verification methods and ways of | W - Credit for the semester is based on successful completion of | | |
| documenting the achieved learning | one written assessment in the form of a test (10 choice | | |
| outcomes. | questions) and obtaining a minimum of 60% correct answers. | | |
| | U - assessment of the ability to interpret tomographic images | | |
| | made by the instructor during the class | | |
| | K - participation in class discussion | | |
| ECTS credits | CONTACT | | |
| | | Hours | ECTS |
| | Practical classes | 15 | 0.52 |
| | credit pass/resit exam | 3 | 0.12 |
| | TOTAL contact hours | 21 | 0.64 |
| | NON-CONTACT HOURS | | |
| | preparation for classes | 5 | 0.2 |
| | learning from books | 4 | 0.16 |
| | TOTAL non-contact hours/ ECTS credits | 9 | 0.36 |
| | attendance at practical classes | 15 | 0.52 |
| | Consultations | | |
| | colloquium in practical classes | 3 | 0.12 |
| | TOTAL with direct involvement of the | 21 | 0.64 |
| | teacher | | |
| Degree of achievement of major | W1- B.W4 ++ | | I |
| learning outcomes: | W2- B.W4 ++ | | |
| | U1- B.U7 +++ | | |
| | K1- WE_K5 ++ | | |
| | K2- WE_K4++ | | |
| | K3-WE_K1++ | | |
| Elements and values affecting final | Final written test - 100%. | | |
| grade | | | |