MODULE CODE	M_WE SEM11 PW 1J/2J ONCOL
Field(s) of study	Veterinary medicine
Education module name, including its English name	Veterinary oncology Onkologia weterynaryjna
Language of instruction	English
Type of education module	Elective
Level of education module	Long-cycle Master's Degree studies
Year of study in the field of study	VI
Semester of study in the field of study	XI
ECTS credits, divided into contact/non-contact	1 (0.6/0.4)
Name and surname of the person in charge	Dr hab. Adam Brodzki
Unit teaching the course	Department and Clinic of Animal Surgery, Faculty of Veterinary Medicine, Lublin University of Life Sciences
Module objective	Acquainting students with methods of surgical treatment of neoplastic diseases most frequently occurring in domestic and non-domestic animals (neoplasms of the anal region, mammary gland, skin, claw bearing, testicles, esophagus and stomach, spleen, oral cavity). Discussing cancer prevention options and management of recurrence of the cancer process.
The learning outcomes for the module include a description of the knowledge, skills and social competences that the student will gain after completing the module.	Knowledge
	K1. Knows the mechanisms that lead to neoplastic lesions and the factors that promote their development.
	K2. Knows how to diagnose neoplastic lesions, what tests can be used in the diagnostic process, and knows possible treatment options.
	Skills
	S1. Is able to collect a sample for diagnostic testing to diagnose neoplastic lesions.
	S2. Is able to perform surgical removal of a neoplastic lesion and use chemotherapy and radiation therapy to treat cancer.
	Social competences:
	C1. Is prepared to collaborate in the diagnostic process of cancer with other specialists in order to make a correct diagnosis and select an effective therapy.
Prerequisites and additional requirements	none
Education module content – a concise description of approx. 100 words.	Ability to recognize and differentiate neoplastic lesions, TNM classification. Methods and techniques of surgical management of various types of neoplasms depending on their location and pathomorphological features: chemotherapy, cryotherapy, surgical treatment (exploratory, prophylactic, productive, palliative). Exercise topics:

	1. Anal cancer - causes, symptoms, diagnosis, treatment and prognosis (2h) 2. Neoplasms of the claw bearing - causes, symptoms, diagnosis, treatment and prognosis (2h) 3. Testicular tumors - causes, symptoms, treatment (1h) 4. Most common paraneoplastic syndromes and management (1h) 5. Esophageal and gastric cancers (1h) 6. Neoplasms of the spleen (1h) 7. Skin cancers - types, causes, treatment (1h) 8. Cancers of the mammary gland - causes, symptoms, treatment, prevention (1h) 9. Chemotherapy (1h) 10. Radiotherapy (1h) 11. Cancer diagnosis (1h) 12. Principles of oncologic surgery (1h) 13. Oral cavity tumors (1h)
Recommended reading list or required reading	1. Fossum T.W.: Surgery of small animals. 2. Morris J. i Dobson J. Oncology of small animals 3.Winggfield W.E.; Intensive therapy of dogs and cats
Planned forms/activities/teaching methods	Tutorials in the form of original multimedia presentations with practical and clinical aspects, including films. Laboratory classes conducted with patients in the Department and Clinic of Animal Surgery on performing oncology procedures and monitoring the anesthetized oncology patient. Discussing with students on cases conducted.
Verification methods and ways of documenting the achieved learning outcomes	Student is obliged to actively participate in the classes consisting in realisation of the curriculum. Student receives a grade for class activity on a scale of 2.0-5.0. A final credit in the form of an oral response is given by the teacher responsible for the course. 3 questions for which a student gains from 0 to 3 points depending on the level of presentation of the topic (0 - no answer or answer not on the topic, 1 - answer on the topic but laconic, 2 - elaborated answer on the topic but not exhausting the topic, 3 - answer on the topic, exhausting the issue fully). Active participation in practical classes is a prerequisite for final credit. Dates of resits are taken in the same format (min. 60% of the points required to pass). Percentage scale (according to study regulations) 60-69% - (3,0) 70-76% - (3,5) 77-84% - (4.0) 85-92% - (4.5) 93-100% -(5.0)
ECTS credits	Contact hours: Tutorials - 2 hours. Laboratory classes - 13 hrs. Credit - 1 hour. Consultations - 1 hour Total= 17 hours - 0.6 ECTS points

	Non-contact hours Preparation for the laboratory classes. - 6.5 hrs. Preparation for the credit - 5 hours Total= 11.5 hours - 0.4 ECTS credits Total - 28.5 hours equals 1 ECTS credit
The workload of activities that require direct participation of an academic teacher	Practical classes 15 hrs: (tutorials 2 hrs, laboratory classes 13 hrs) Consultations 1hr. Credit - 1 hour. A total of 17 hours, which is equivalent to 0.6 ECTS credits.
Relation of module learning outcomes to major learning outcomes	K1 - WE_W15 + WE_W16 + K2 - WE_W17 ++, WE_W18 ++ S1-WE_U19 ++ S2 - WE_U24 +++, WE_U25 +++, WE_U26 +++ C1 - WE_K11+
Elements and values affecting final grade	Final grade: evaluation resulting from the observation of student activity and knowledge during the classes - 20% of the final grade, final credit - 80% of the final grade.