Module code	M_WE SEM10 PW 1H/2H ENDOK KLIN
Field of study	Veterinary medicine
Module name, also the name in English	Clinical endocrinology
	Endokrynologia kliniczna
Language of instruction	English
Module type	optional
Level of studies	long-cycle master's degree studies
Form of study	full-time
Year of study in the field of study	V
Semester of study in the field of study	X
ECTS credits, divided into contact/non-contact hours	1 (0.6/0.4)
Academic title/degree, name of the person responsible for the module	Dr. Jan Marczuk
Unit teaching the module	Department and Clinic of Internal Animal Diseases
Module objective	Getting to know clinical symptoms, laboratory tests and methods of treatment of endocrine diseases in dogs and cats, ruminants and horses.
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. The student knows the basic methods of clinical and additional endocrine testing in companion and farm animals
	K2. The student knows the most important diseases within the endocrine system of companion and farm animals
	Skills:
	S1 The student is able to diagnose endocrine system disorders in domestic animals
	S2. The student is able to collect material for examination, knows methods of handling the material and interpret the results of endocrinological additional examinations
	Social competences:
	C1. The student demonstrates readiness to take responsibility for decisions made in relation to the animal and its owner
	C2. The student is willing to continuously improve his knowledge and improve his own skills in endocrine disorders in animals.
Prerequisites and additional requirements	According to the sequence of subjects
Module program content	Practical classes: Endocrine system in clinical terms; Fundamentals of endocrine analytics; Major companion animal endocrinopathies involving the pituitary, adrenal glands, thyroid, pancreas, sex glands, hormonal problems related to internal disease and obesity; Main endocrinopathies of livestock and horses; equine Cushing's syndrome, equine metabolic syndrome, nutritional secondary hyperparathyroidism

List of core and supplementary literature	Core literature: 1 Feldman EC, Nelson RW. Canine and Feline Endocrinology and Reproduction. Publisher 3. St. St. Louis 2004, WB Saunders. 2 Rijnberk A, Kooistra HS. Clinical Endocrinology of Dogs and Cats. Hannover 2010, Schlütersche Verlagsgesellschaft mbH & Co. 3.Scientfic papers
Planned forms/activities/teaching methods	Ambulatory exercises, laboratory exercises, multimedia presentations, patient presentation, clinical case discussion and discussion.
Verification methods and ways of documenting the achieved learning outcomes.	Knowledge - written assessment in the form of a single-choice test Grade: Very good 93 - 100% Good plus 85 - 92 % Good 78 - 84% Satisfactory plus 71 - 77% Satisfactory 63 -70% Skills - evaluation of independently performed analytical procedures by the instructor Competences - participation in discussions, oral answer to a problem, teamwork skills

ECTS credits

Contact		
Form of classes	*Hours*	*ECTS credits*
Auditory exercises	2	0.07
Laboratory classes	13	0.49
Test credit	1	0.04
Total	*16*	0.6
Non-contact		
Preparation for classes	5	0.2
Literature review	5	0.2
Total	*10*	*0.4*

The workload of activities that requires direct participation of an academic teacher

Form of classes	*Hours*	*ECTS credits*
Participation in auditory exercises	2	0.07
Participation in laboratory exercises	13	0.49
Consultations		
Test credit	1	0.04
Total	*18*	*0.6*

Relation of module learning outcomes to course learning outcomes.	K1. – B.W4 +++ K2. - B.W6 ++ S1. - B.U2 +++ S2. – B.U3. +++; B.U6. +++ C1. - K1 ++ C2. - K5 ++
Elements and values affecting the final grade	Final grade Final test - 100% weightage