

Module name:		Pathophysiology
ECTS:		8
Learning effects		Course outcomes:
Knowledge:	1	Student knows the mechanisms of homeostasis, its regulation and the changes during life cycle. Student understands the general criteria for differentiation between health and disease in individual animals, the herd and population. Student knows the general classification of the diseases and the types of the onset
	2	Student knows the mechanisms and the effects of environmental factors on the organism of certain companion and farm animal species and the herd health
	3	Student knows the mechanisms responsible for cellular function disorders, cellular regulatory mechanisms, the mechanisms of cellular pathologies and cellular death
	4	Student knows the onset and role of inflammation in the pathologies of organs and systems
	5	Student knows the causes, onset and the effects of systemic disorders that occur in the diseases of organs and systems
	6	Student knows the mechanisms of organ diseases in certain companion and farm animal species
	7	Student knows the relations among pathological processes in the organism
	8	Student is familiar with the current nomenclature
Skills:	1	Student is able to describe the general mechanisms responsible for health and diseases comprehensively enough for effective communication with other members of veterinary team and the animal's owner
	2	Student is able to use the current nomenclature
	3	Student is able to interpret symptoms of the diseases in the context of mechanisms that produced these symptoms
	4	Student is able to indicate the relations among pathological processes
	5	Student is able to indicate the differences among pathological processes typical for certain companion and farm animal species
	6	Student is able to interpret the results of basic diagnostic tests in the context of organ and systemic pathologies
	7	Student is able to evaluate CBC in inflammation
	8	Student is able to use the scientific sources as a help in clinical issues
Competences:	1	Student formulates the opinions taking into account cellular and organ pathologies as a basis for clinical presentation of the disease and the onset of therapeutic process
	2	Student is prepared to use the sufficient knowledge and skills for further application in the learning process
	3	Student is aware of having knowledge, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner
	4	Student is aware of the necessity of constant education using scientific sources

Objectives of the module required to obtain learning effects:	The discipline “Pathophysiology” introduces students to clinical medicine. The main goal is to provide students with information about causes (aetiology) and progress (pathogenesis) of disease. Students should accomplish the understanding of how disturbances in homeostasis lead to the onset and progression of disease. The dynamics of disorder depending on the severity of disease should allow the evaluation of possible outcomes and prognosis for recovery.
Assessment methods:	Seminars, 2 written tests, written exam