

## PATHOLOGICAL ANATOMY

<b>Study program</b>	Veterinary Medicine
<b>Year of study</b>	III
<b>Semester</b>	V
<b>Regime of discipline</b>	DOB
<b>Category of discipline</b>	Dsc
<b>Number of lectures hours per week</b>	2
<b>Number of seminar/laboratory/project hours per week</b>	3
<b>Total number of hours according to the curriculum: lectures/seminars/laboratory/project</b>	28/42
<b>Number of transferable credits</b>	5

### SPECIFIC SKILLS

<b>Professional Competence</b>	<p>Learning by students of basic knowledge concerning macro-and microscopic changes in the fundamental organs pathological processes, apparatus and systems, with the peculiarities of their lezionale, and correlative study of injuries in order to establish the diagnosis of disease and the assignment.</p> <p>Based on morphological characters, students are able to identify various injuries on canned and fresh pieces confiscated from slaughterhouse.</p> <p>Prepare accurate clinical and client records, and case reports when necessary, in a form satisfactory to colleagues and understandable by the public. Perform a systematic gross post-mortem examination, record observations, sample tissues, store and transport them. Perform inspection of food and feed including post-mortem inspection of food producing animals and inspection in the field of related food technology. Veterinary public health issues, e.g. epidemiology, transboundary epizootic diseases, zoonotic and food-borne diseases, emerging and re-emerging diseases, food hygiene and technology.</p>
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### LEARNING OUTCOMES

<b>Knowledge</b>	The student/graduate identifies, describes, explains, and classifies the mechanisms of disease development, risk factors, pathogenic agents (bacteria, viruses, parasites), and types of immune responses, as well as the development of pharmacological and genetic approaches.
<b>Skills</b>	The student/graduate correctly interprets and applies fundamental concepts regarding the mechanisms of disease development and the methods for investigating biological functions.
<b>Responsibility and autonomy</b>	The student/graduate integrates fundamental concepts and methods of investigating biological functions, formulates and assumes well-argued conclusions regarding the general mechanisms of disease development and the general principles of treatment.

### COURSE OBJECTIVES

<b>General objective of the course</b>	To provide the necessary knowledge regarding the alterations in the physical and structural characteristics of tissues and organs (lesions), which, when correlated, allow the establishment of the morphopathological diagnosis at the level of tissues, organs, and systems, and ultimately the diagnosis of disease.
<b>Specific objectives</b>	<ul style="list-style-type: none"> <li>• To describe the occurrence and manifestation of fundamental pathological processes.</li> <li>• To acquire basic knowledge regarding the macroscopic and microscopic changes in fundamental pathological processes; changes in organs, apparatuses, and systems, with lesion-specific and species-</li> </ul>

	<p>specific features, as well as the correlative study of lesions for the purpose of establishing the morphopathological diagnosis in deficiency, infectious, and invasive diseases in various domestic species.</p> <ul style="list-style-type: none"> <li>To understand the fundamental pathological processes: anomalies, circulatory disorders, dystrophies, inflammations, and tumors, with the aim of identifying them through morphopathological diagnosis.</li> <li>To acquire knowledge of the various morbid processes occurring in the organism in order to establish the postmortem diagnosis, one of the most important diagnostic methods in veterinary medical practice.</li> <li>To identify and describe the fundamental pathological processes (anomalies, circulatory disorders, dystrophies, inflammations, and tumors) in the morphopathological report.</li> </ul>
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## COURSE CONTENT

LECTURES	Number of hours
Topic no. 1 Getting started. The methods of study. The history and development of the morphopatology.	1
Topic no. 2 Local circulation pathology.	4
Topic no. 3 Local circulation pathology.	1
Topic no. 4 Bioplastic adaptive processes in pathology.	3
Topic no. 5 Protidic Dystrophies.	2
Topic no. 6 Protidic Dystrophies.	2
Topic no. 7 Carbohydrate and lipid Dystrophies.	3
Topic no. 8 Mineral dystrophy, Necrobiosis, necrosis and gangrene.	3
Topic no. 9. Lesions predominantly alterative.	1
Topic no. 10 Lesions predominantly exudative.	4
Topic no. 11 Lesions predominantly productive.	2
Topic no. 12 Regenerative processes in pathology.	2
Topic no. 13 Studying tumour process.	2
Topic no. 14 Cardiovascular lesions exam.	2

## BIBLIOGRAPHY:

- ADRIAN OLARIU-JURCA, IOAN OLARIU-JURCA, MARIAN COMAN, ADRIAN STANCU, (2015) - Compedium Of Practical Veterinary Pathological Anatomy, Ed. Eurobit, Timișoara
- ADRIAN OLARIU-JURCA (2014) – Dictionar morfopatologic veterinar româno-englez, Ed. Eurobit, Timișoara.
- Ioan Olariu-Jurca, Adrian Olariu-Jurca (2017) - Morfopatologie generală veterinară. Ed. Eurobit, Timișoara.
- M. DONALD MCGAVIN, JAMES F. ZACHARY (2006) - Pathologic Basis of Veterinary Disease, Fourth Edition, Ed. Mosby Elsevier.
- James F. Zachary (Editor), M. Donald McGavin - Pathologic Basis of Veterinary Disease. Ed. ELSEVIER,

## ASSESSMENT

Activity type	Assessment criteria	Assessment methods	Percentage of final grade
Lectures	Communication of information using correct scientific language used within the specialist discipline of pathological anatomy	Oral examination with two topics	60%
Seminar/laboratory/clinical sessions		Practical examination.	30%
Other activities		Periodic evaluation (by oral evaluation samples/written).	10%

**Course coordinator: S. Lect. DVM. Ph.D. Olariu-Jurca Adrian**

**Practical activities coordinator L/S/P: S. Lect. DVM. Ph.D. Olariu-Jurca Adrian  
Prof. Ph.D. Adrian Stancu**