



General information			
Academic subject	VETERINARY	RY ANATOMICAL PATHOLOGY 3	
Degree course	Veterinary M	Medicine	
Academic Year	2021/2022		
European Credit Transfer and Accumulation System		rstem (ECTS) 2	
Language	italian		
Academic calendar (starting and ending date)		IV bimester	
Attendance	Mandatory		

Professor/ Lecturer	
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Virtual headquarters	team b0nj9a8
Tutoring (time and day)	by appointment to be agreed via email, on site or on Teams

Svllabus	
Learning Objectives Course prerequisites	The objective of the course is to provide students with skills aimed at the ability to know how to detect the morphological variations that characterize the pathological processes of the organs, as well as their etiology and pathogenesis, to describe the lesions using the appropriate terminology and to know the various diagnostic levels that can be addressed with the techniques of Veterinary Pathological Anatomy Knowledge of morphophysiology, acquired through the study of Anatomy and
	Phisiology and knowledge of physiopathology acquired through the study of General Pathology To take the exam, it is necessary to have passed the preparatory exams.
Contents	The contents of the program pertain to the areas: Clinical Sciences of Companion Animals (including Horses and Exotics), Clinical Sciences in Food-Producing Animals (including Animal Husbandry and Herd Medicine) and Vocational Training. Areas of application of pathological anatomy. Methods in pathological anatomy. Methods for the macroscopic interpretation of the main lesions: general evaluation of the organs (state of the serosa, volume, weight, shape); description of the lesions (colour, shape, surface appearance, consistency, size, distribution); interpretation of the lesions (degenerative-necrotic processes, benign and malignant neoplasms, acute inflammatory processes (serous, catarrhal, fibrinous, haemorrhagic, purulent, necrotizing, gangrenous) and chronic; formulation of the anatomo-pathological morphological diagnosis; Microscopic examination (examination Cytological Histopathological examination Histochemical examination Immunohistochemical examination Integumentary system.
Books and bibliography	 P.S. Marcato: Patologia sistematica veterinaria. Edagricole, Milano 2015. M.D. McGavin, J.F. Zachary: Patologia veterinaria sistematica. Elsevier, Milano 2010. Guarda F., Mandelli G.: Trattato di anatomia patologica veterinaria, IV Edizione.UTET.
Additional materials	Color Atlas of Veterinary Pathology-General morphological reactions of organs and

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tissues.II Edition Van Dijk. J. E.; Gruys, E.; & Mouwen, J.

Work schodulo				
Total	Lectures	I[Hands on (Laboratory, working groups, cominars	Out-of-class study
Total	Lectures		field trips)	hours/ Self-study
Hours	1			
50	13		25 (Exercises will be repeated in turns of about 6	12
			students, on the bases of the total number of	
FCTS			Students	
2	1		1	
	<u>→</u>	The cours	e is carried out in classrooms equipped with multime	dia tools through the
Teaching strates		projection addressed The practi 1. exercise to acquire exercises i histologica 2. interact The practi compliance equipmen (optional)	of Power point slides with which the content d. ical lessons are of two types: es, in the sector room, on organs of animals for slaugl e manual skills and apply the concepts of macroscopic in pathological anatomy laboratories to prepare, obse al and cytological samples; tive sessions on projected images to acquire diagnost ical lessons include access to the anatomical room wh ce with biosecurity standards and the use of personal at: white coat or disposable gown, disposable gloves, , disposable footwear or rubber boots. It is preferable	the course are the course are the course are description; erve and evaluate ic skills. hich requires protective cap and goggles e to have personal
		instrumen	nts (forceps, scalpels, scissors) during the practical exe	ercises.
Expected learning	g outcomes			
Knowledge and u on:	inderstanding	oti r ok	he student knows the methods of pathological and ecognize and describe the most significant altera organs; now the common cytological and histopathological d	atomy and is able to ations of tissues and iagnostic techniques
		o ti n s	ne student knows the etiopathogenesis and the m norphological pictures of the main diseases related ystem	to the integumentary
Applying knowled understanding or	dge and n:	otl d d b ow h	he student recognizes and adequately interprets the lescribed, using the classical morphological param lescribe them (shape, volume, color, consistend hypothesize the diagnosis vill know how to apply tissue sampling methods histopathological diagnostic investigations	nature of the lesions neters to detect and cy, distribution) and s for cytological and
Soft skills		 Autonomy of judgment The student can recognize and describe with technical terminology the main macroscopic lesions observed on organs and tissues and is able to set up a differential diagnosis Communication skills o is able to argue with autonomy of judgment the merits and limits of the various diagnostic methods; you are able to evaluate their accuracy and predictive value o expresses itself with scientifically appropriate terminology in the discussion and 		





	description of the lesions	
	Ability to learn independently	
	o Is able to use complementary resources (veterinary pathology sites) to integrate,	
	complete and enhance their training.	
Assessment and feedback		
Methods of assessment	The student will be assessed on the basis of knowledge of the topics covered and	
	the ownership of the technical terminology used.	
	The verification of the knowledge and skills expected is carried out with an exam divided into: a practical exam which includes: 1. macroscopic recognition of species and anatomical recognition of organs; 2. description of the lesions detected and formulation of anatomo-pathological diagnosis on a single organ or cadaver; 3. Performing one of the appropriate sampling techniques for microscopic examination (histological / cytological); and at the same time as the practical test, an oral exam on topics from the program. During the interview, in-depth questions are asked relating to the pathologies mentioned. Particular attention is paid to the student's ability to think transversally and to connect the notions of the various parts of the teaching to each other.	
	The assessment acquired in the module, together with that of the modules "Pathological Anatomy 1 and 2", and "Necropsy Technique", contributes to the determination of the final evaluation of the Pathological Anatomy exam. The final grade is expressed as the average of the marks obtained in the different parts of the exam.	
	Eailura to pass requires the candidate to repeat the entire evam	
Evaluation criteria	Applied knowledge and understanding:	
	 o the student will be assessed on the ability to adequately recognize and interpret the lesions found during the examination of organs and tissues during the practical test o will be assessed on the ability to apply tissue sampling methods for cytological and histopathological diagnostic investigations Autonomy of judgment: o Will be evaluated on the ability to elaborate diagnostic hypotheses after recognizing and describing the lesions on the organs Communication skills: o Will be assessed on the ability to argue with independent judgment the merits and limits of the various diagnostic methods; evaluate their accuracy and predictive value o Will be assessed on the ability to process a report Ability to learn: o The student will be offered a pathological bowel or a photographic image that reproduces a lesion: he will have to recognize the organ and the species to which it belongs, identify the lesion and describe it using the standard international descriptive methodology presented during the 	
	course	
Criteria for assessment and	The mark is expressed out of thirty: the highest evaluations are attributed to	
attribution of the final mark	students with good exposition skills, able to use the correct scientific terminology	





	and to elaborate a complete description of the lesion starting from the macroscopic part. The score is assigned on the basis of further knowledge on pathogenesis and etiology and on the ability to formulate the diagnosis and set differential diagnoses.
Additional information	