

General information	
Academic subject	<b>CLINICAL PATHOLOGY, CLINICAL EXAMINATION and MEDICAL PATHOLOGY</b>
Degree course	Veterinary Medicine
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	4
Language	ITALIAN
Academic calendar (starting and ending date)	
Attendance	MANDATORY

Professor/ Lecturer	
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Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	
Tutoring (time and day)	Tuesday 03.00 pm – 04.00 pm

Syllabus	
<b>Learning Objectives</b>	The course aims to allow students acquire the basic elements of etiology, pathogenesis and symptomatology of the main pathologies of internal medical interest of domestic animals, as well as to make students acquire all necessary skills for identifying patients' disease for a correct diagnostic rule-out.
<b>Course prerequisites</b>	Veterinary Pharmacology and Toxicology. Students must have acquired, however, adequate knowledge of the disciplines of anatomy, physiology, microbiology, virology, parasitology and general pathology.
<b>Contents</b>	Diseases of the digestive, respiratory, cardio-circulatory, urinary, musculoskeletal, haematopoietic systems, endocrine and nervous system diseases, of the main species of veterinary interest (bovine, dog, horse and cat). For each pathology, the etiology, pathogenesis, lesions and symptoms will be taken into consideration. Specific functional insufficiency (renal, hepatic, cardiac, respiratory, pancreatic insufficiency) will be discussed in deep, particularly for the main organs. Furthermore, some complex pathological pictures will be discussed, based on their epidemiological frequency.
<b>Books and bibliography</b>	<p><b>Suggested textbooks Small Animal Internal Medicine</b></p> <ul style="list-style-type: none"> <li>☐ Ettinger, Feldman - Vitali "Trattato di Clinica Medica Veterinaria". Ottava edizione, Antonio Delfino Editore, anno 2019.</li> <li>☐ Nelson, Couto "Medicina interna del cane e del gatto". Quarta edizione, Elsevier-Masson, anno 2015.</li> <li>☐ Dunlop, Malbert "Veterinary Pathophysiology". Prima edizione, Blackwell Publishing, anno 2004.</li> <li>☐ Santilli, Bussadori, Borgarelli "Manuale di Cardiologia del cane e del gatto". Prima edizione, Elsevier-Masson, anno 2012.</li> <li>☐ Zatelli "Malattie renali del cane e del gatto". Prima edizione, EDRA, anno 2014.</li> </ul> <p><b>Suggested textbooks Large Animal Internal Medicine</b></p> <ul style="list-style-type: none"> <li>☐ Dirksen "Medicina Interna e Chirurgia del Bovino", Edizione italiana Point Veterinaire, anno 2004.</li> </ul>

	<ul style="list-style-type: none"> <li>☐ Smith "Large animal internal medicine". Quarta edizione, Mosby Elsevier, anno 2008.</li> <li>☐ Radostis "Veterinary Medicine: A textbook of the diseases of cattle, horses, sheep, pigs and goats". Decima edizione, Saunders-Elsevier, anno 2007.</li> <li>☐ Rose "Manuale di clinica del cavallo". Prima edizione italiana, Antonio Delfino Editore, anno 2006.</li> </ul>
<b>Additional materials</b>	Different teaching material, both hard and soft copy, provided from the professor in charge for the course.

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
<b>Hours</b>			
100	39	25	36
<b>ECTS</b>			
4	3	1	
<b>Teaching strategy</b>	The theoretical part of the course takes place in classrooms equipped with multimedia devices such as a PC, projector, internet connection, through the use of power point presentations. The practical exercises will be held in the outpatient clinics and laboratory stables of the Medical Clinic section of the Veterinary Medicine department. Students are supervised by the professor in charge of the course together with collaborators.		
<b>Expected learning outcomes</b>			
<b>Knowledge and understanding on:</b>	<p>Understand and apply principles of clinical governance, and practise evidence-based veterinary medicine.</p> <p>At the end of the course, students should demonstrate they have acquired adequate knowledge on the main diseases of internal medical interest in domestic animals. Students should also be able, using the most appropriate instrumental and laboratory diagnostic exams, to formulate a correct diagnosis through a differential diagnosis.</p>		
<b>Applying knowledge and understanding on:</b>	<p>Communicate effectively with clients, the public, professional colleagues and responsible authorities, using language appropriate to the audience concerned.</p> <p>Understand and apply principles of clinical governance, and practise evidence-based veterinary medicine.</p> <p>Take part in self-audit and peer-group review processes in order to improve performance.</p> <p>Obtain an accurate and relevant history of the individual animal or animal group, and its/their environment.</p>		

	<p>Making links between the different pathophysiologic mechanisms, even belonging to different apparatus, students will be able, in complete autonomy, to figure out some hypothesis about the ongoing pathological processes. The students will be able to use a proper medical terminology, and which they have become familiar with during lessons and practical activities both on healthy and sick animals.</p>
<b>Soft skills</b>	<p><b>Making informed judgments and choices</b> The method learnt during the course works as a basis for the comprehension of further clinical courses.</p> <p><b>Communicating knowledge and understanding</b> Understanding of, and competence in, the logical approaches to both scientific and clinical reasoning, the distinction between the two, and the strengths and limitations of each.</p> <p>The acquired knowledge will be combined with clinical and technical findings, and students will be able to use proper medical language and terms acquired during the theoretical lessons and practice.</p> <p><b>Capacities to continue learning</b> The aetiology, pathogenesis, clinical signs, diagnosis and treatment of the common diseases and disorders that occur in the common domestic species.</p> <p><b>Principles of effective interpersonal interaction, including communication, leadership, management and team working.</b></p> <p>The method learnt during the course works as a basis for the comprehension of further clinical courses, in particular Clinica Medica. The acquired knowledge will be combined with clinical and technical findings of the most important diseases encountered in clinical veterinary practice. This method will be used in the students' future veterinary practice.</p>

<b>Assessment and feedback</b>	
Methods of assessment	
Evaluation criteria	<p>The assessment of acquired knowledge requires an oral exam consisting of at least three questions strictly related to the course program. The assessment obtained in the module, together with that acquired in the "Medical Semeiotics / Laboratory Diagnostics" test will contribute to the final mark of the Semeiotics and Medical Pathology exam.</p> <p>In itinere tests: No Self tests: Yes Practical test: No Final exam: Oral</p>
Criteria for assessment and attribution of the final mark	
<b>Additional information</b>	

