



ACADEMIC YEAR 2023/2024

General information	
Academic subject	<b>VETERINARY CLINICAL MEDICINE</b>
Degree course	VETERINARY MEDICINE
Academic Year	V
Integrative Modules	<b>Clinical Medicine; Diagnostic Imaging; Therapy; Veterinary Legal Medicine.</b>
ECTS	10 ECTS (lectures: 7 ECTS; practical activity: 3 ECTS)
Language	Italian
Academic calendar	II-III 7 week term
Attendance	Compulsory

Teacher	Email address	telefono
Prof. Paola Paradies	paola.paradies@uniba.it	0805443847
Dott. Floriana Gernone	floriana.gernone@uniba.it	0805443884
Dott. Fabrizio Iarussi	fabrizio.iarussi@uniba.it	0805443889
Department and address	Campus of Veterinary Medicine S.P.62 Casamassima km 3, Valenzano	
Virtual rooms	Teams platform	
Tutoring (time and day)	On appointment by mail	

Syllabus	
<b>Learning Objectives</b>	<p>The aim of the course is to give the student a "problem solving" approach to clinical cases in different animal species. Students at the end of the course should be able to examine the animal, to create the list of clinical problems and decide a first diagnostic plan. Furthermore, they should be able to integrate instrumental and laboratory data with the problems arising from the clinical examination and formulate a differential diagnostic list useful for reaching a correct final diagnosis. Finally, they should be able to rationalize the prognosis and the course of the disease and choose the correct therapeutic approach.</p> <p>Students will be introduced to the basis of therapeutic protocols to be used in the most important medical diseases of animals, including dosages, routes of administration, therapeutic efficacy and side effects of the drugs used. Knowledge of the Civil, Criminal and Administrative Law regulations governing the Veterinary profession will be acquired along with fundamental concepts of insurance, forensic and legal aspects in veterinary medicine.</p>
<b>Course prerequisites</b>	Pathology, Clinical-pathology, Parasitology and parasitic diseases, Infectious diseases.
Contents of the Teaching course <b>CLINICAL MEDICINE</b>  <b>teacher</b> <b>Prof. Paola PARADIES</b>  <b>Lectures</b>	The module concerns Clinical Science of Companion Animals (including horses)  <b>Clinical methodology:</b> approach to the patient of different animal species – presenting complaint, medical history, and clinical examination. From clinical signs to the diagnosis through a problem-oriented approach. Clinical reasoning: formulation of the list of problems, the diagnostic plan, and the list of differential diagnoses. What is the right clinical approach for a specific patient and in a specific context? Recognition of the "urgency code".





<p><b>THERAPY</b> <b>Teacher</b> <b>Dott. Floriana GERNONE</b></p> <p><b>Lectures</b> <b>1ECTS</b> <b>13 h</b></p> <p><b>Practical activity</b> <b>1 ECTS</b> <b>15h</b></p>	<p>Fluid therapy. Treatment of hypovolemic shock. Correction of electrolytic imbalances. Diuretic therapy. Anti-inflammatory treatment. Antiepileptic therapy. Treatment of the main cardiovascular, respiratory, gastro-enteric, and dermatological diseases. Treatment of urinary disorders. Antimicrobial, antifungal, and antiparasitic therapy. Treatment of vector-borne diseases. Treatment of neoplastic diseases. Management of endocrinopathies. Treatment of immunomediated diseases.</p> <p>Students divided in groups will discuss therapeutic aspects of clinical cases referring to the Veterinary Teaching Hospital.</p>
<p>Contents of the Teaching module <b>VETERINARY LEGAL MEDICINE</b></p> <p><b>Teacher</b> <b>Dott. Fabrizio IARUSSI</b></p> <p><b>lectures</b> <b>2ECTS</b> <b>26 h</b></p>	<ul style="list-style-type: none"> <li>• - National Federation of Veterinary Orders: FNOVI</li> <li>• - National Pension and Assistance Board for Veterinarians: ENPAV</li> <li>• - CME training program</li> <li>• - Professional outlets</li> <li>• - Professional responsibility of the veterinarian</li> <li>• - Code of ethics and disciplinary sanctions</li> <li>• - Prescription and possession of Veterinary drugs</li> <li>• - Animal Welfare: Regulations.</li> <li>• - Buying and selling examination and determination of defects</li> <li>• - Official inspections of hereditary diseases</li> <li>• - Office and party counseling in litigation</li> <li>• - Straying.</li> <li>• - Contingent and urgent ordinance concerning the protection of public safety from dog aggression (G.U..209/2013)</li> <li>• - Canine Registry</li> <li>• - Identification and registration of farm animals</li> <li>• - Animal Experimentation: Regulations.</li> </ul>
<p>Biosecurity during practise</p>	<p>Access to the clinics and laboratories of the Veterinary Hospital is allowed only to students equipped with protective clothing (gowns and disposable latex gloves), who have read the biosafety manual</p>
<p><b>Books and bibliography for personal study</b></p>	<p>-Nelson RW, Couto CG - Medicina Interna del Cane e del Gatto, Elsevier, Milano, ultima edizione; -Manuale di Clinica del Cavallo 2/ed. di ROSE RJ.; HODGSON DR.; Antonio Delfino Editore, 2005; -Bovine di latte. Le malattie della produzione. Manuale per la prevenzione e il controllo, Zeconi, Fantini, 2014, L'informatore agrario Ed. Radiografia del cane e del gatto. Gracia Real. EV. Esame di base dell'addome nel cane e nel gatto. Faverzani, Lodi, Barella (Quaderni) Ruffo G. Legislazione Veterinaria. Poletto Editore, 2003 Chiti-Batelli A. Sperimentazione Animale: problema europeo. CEDAM Eds, 2005</p>
<p><b>Additional materials</b></p>	<p>Material from teachers, individual lecture notes</p>

<b>Work schedule</b>			
Total	Lectures	Hands on (Laboratory, working groups, seminars,	Out-of-class study

		field trips)	hours/ hours	Self-study
<b>Hours</b>				
250	91	60		99
<b>ECTS</b>				
10	7	3		
<b>Teaching strategy</b>		<p>Frontal teaching, interdisciplinarity, role playing, laboratory teaching, multimedia learning platforms, practices.</p> <p>Part of the courses is carried out in the classroom using power points integrated with videos selected by the teachers. Clinical cases selected from the teacher will be used to introduce and explain the “problem solving approach and to discuss clinical cases. The practical lessons (students divided into groups) are carried out in the small animal Clinics or in the large animal examination room and are aimed to allow a direct contact with patients; alternatively, students will be asked to the interactive discussion on archival clinical cases. In particular, during practice, students divided into groups will be invited to solve clinical questions through the interpretation of laboratory tests and radiographic tests with final discussion, to perform ultrasound scans and to interpret the X-ray or ultrasound images through the description of the pathological findings and their differential diagnosis, to choose and motivate the best therapeutical approach.</p>		
<b>Expected learning outcomes</b>				
<b>Knowledge and understanding on:</b>		<p>Interpretation of clinical signs and associated pathologies.  “Problem solving” approach.  Role of collateral tests  Appropriate scientific language  Algorithms and differential diagnosis of the most common clinical signs  Correct methodological approach to setting up the most suitable treatment for the patient.  Knowledge of the ultrasound equipment.  Applied anatomy and semeiotics.  Radiographic and ultrasonographic signs of the main pathologies of clinical interest  Veterinary practice  Technical consultations and expert witness work  Drug Surveillance System</p>		
<b>Applying knowledge and understanding on:</b>		<p>To reach clinical problem-solving skills, being able to carry out the clinical exam in different animal species, to formulate a diagnostic plan and a list of differential diagnoses, to appropriately communicate with owners and colleagues, to learn the correct methodology in the choice of therapeutic management of the patient's disease.</p> <p>Skills in interpreting radiographic and ultrasonographic studies, ability to recognize radiographic and ultrasound signs of the main intrathoracic and abdominal pathologies of small animals, ability to draw up a report; ability to create a list of radiographic and ultrasound differential diagnoses. Furthermore, ability to perform an animal buying and selling examination by detecting the presence of any redhibitory defects; draft veterinary medical-legal certificates (Referrals, Certificates of breed typicality, etc.), to produce a Veterinary Electronic Prescription, and know</p>		



	<p>the National Pharmaco-surveillance Information System and ability.</p> <p>At the end of the course the student is expected to acquire the following Day One Competences adopted by ECCVT: 1.4, 1.5, 1.8, 1.9, 1.12, 1.13, 1.14, 1.15, 1.16, 1.17, 1.23</p>
<b>Soft skills</b>	<ul style="list-style-type: none"> <li>• Making informed judgments and choices to solve a clinical case on a single animal or to solve farm clinical problems, to approach diseased patients, to formulate a diagnostic and therapeutic plan.</li> <li>• Communicating knowledge and understanding The student will be asked to learn a correct technical medical language.</li> <li>• Capacities to continue learning. Students will learn how to approach a clinical problem using the POA method (Problem oriented approach) and algorithms and how to differentiate their clinical the approach based on the working context. The acquired clinical problem-solving skills will give them the basis to further study and approach to any clinical specialistic path of the veterinary medicine. The therapeutic protocols learned during the course coupled with the continuing education will be used in the professional field Ability to independently learn and investigate topics of professional interest.</li> </ul> <p>The Day One Competency adopted by ECCVT 2.1, 2.5, 2.11 are expected to be acquired.</p>
<b>Summary of the EAEVE Day One Competence</b>	1.4, 1.5, 1.8, 1.9, 1.12, 1.13, 1.14, 1.15, 1.16, 1.17, 1.23, 2.1, 2.5, 2.11

<b>Assessment and feedback</b>	
Methods of assessment	<p>Clinical Medicine: preliminary practical test (clinical examination of an animal species to be performed before the oral exam on topics in the program. In both tests the student must demonstrate the skills acquired during the practical exercises, the ability to make a clinical problem-solving approach by formulating a diagnostic process and a list of differential diagnoses. They also need to demonstrate good knowledge of medical terminology.</p> <p>Diagnostic Imaging: in itinerant tests of self-evaluation; final oral exam with evaluation of the knowledge of basic concepts of ultrasonography and interpretation of radiographic studies and ultrasound pictures.</p> <p>Therapy and Veterinary Legal Medicine: an oral examination on topics related to the course program</p>
Evaluation criteria	<ul style="list-style-type: none"> <li>• Knowledge and understanding To perform a complete clinical examination To approach a clinical case with a medical problem-solving approach To know the clinical and diagnostic aspects and the time course of some common diseases To know basic concept of ultrasound To know therapeutic protocols</li> <li>• Applying knowledge and understanding To recognize and describe symptoms, to create a diagnostic plan, to describe a clinical case to interpret radiographic and Eco-graphic pictures. To use therapies</li> </ul>



	<p>appropriate to the individual cases. To solve critical issues in simulations of different work scenarios</p> <ul style="list-style-type: none"> <li>• <b>Autonomy of judgment</b> To evaluate a clinical case or to critically approach a diagnostic and therapeutic plan. Ability to analyze and make a critical sense of the topics studied Ability to comprehensively and unified evaluation of the most common legal disputes encountered in the veterinary field.</li> <li>• <b>Communicating knowledge and understanding</b> To explain and discuss with appropriate terminology.</li> <li>• <b>Communication skills</b> To communicate clearly</li> <li>• <b>Capacities to continue learning.</b> To adapt skills and knowledge to new clinical scenarios</li> </ul>
<p>Criteria for assessment and attribution of the final mark</p>	<p>The evaluation is reported in /30. To pass the examination an evaluation &gt; or = 18/30 is asked. For the Clinical Medicine Module to access the oral examination the students need to pass the practical test that is evaluated as idoneity. The inter-course self-assessment tests do not affect the final exam in any way. The final mark is the result of a collegial evaluation of the partial examinations, during which the student must demonstrate to have acquired critical sense with respect to the topics of the course.</p>
<p><b>Additional information</b></p>	