



General information			
Academic subject	VETERINARY CLINICAL MEDICINE		
Degree course	VETERINARY MEDICINE		
Academic Year	2021/2022		
European Credit Transfer and Accumulation System (ECTS) 4			
Language	italian		
Academic calendar (starting and e	ending date) II – III Bimester		
Attendance	Mandatory		
Accordance			

Professor/ Lecturer	
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Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	Teams code: nzchttj
Tutoring (time and day)	Monday-Friday h 15-18

Syllabus	
Learning Objectives	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 visit 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 visit 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.
Course prerequisites	Pathology, Clinical-pathology, Parasitology and parasitic diseases, Infectious diseases.
Contents	Course program CLINICAL SCIENCE OF COMPANION ANIMALS (including horses)
	Clinical methodology : approach to the patient of different animal species – presenting complaint, medical history and clinical examination. From clinical sign 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? Clinical approach to the commonest clinical problems. Disorders of specific organs and systems.
	 Small animals: Use of clinical algorithms. Approach to the patient with: - pale mucous membranes, - vomiting, - diarrhea, - anorexia, - polyuria / polydipsia, - urination disorders, - cough, - dyspnea, - jaundice, - ascites, - weight loss, - fever, - seizures, -pruritus, - alopecia, otitis, nodular dermatitis, heart murmur, epistaxis, serum protein gammopathy. Recognition of the "urgency code". Interpretation of laboratory alterations. Integration of clinical data with instrumental and laboratory data. Non-invasive clinical-interventional procedures and diagnostic techniques. Discussion of clinical cases.





	Emergencies in internal medicine (Shock, diabetic ketoacidosis, Addisonian crisis, hemolytic anemia, hypoglycemic crisis, chest effusion, cardiac tamponade, severe arrhythmias, cardiogenic pulmonary edema, hepatic encephalopathy, gastric dilation / torsion, urethral obstruction, acute abdomen, rodenticides and other poisonings). In-depth seminars on small animal medicine specific topics (endocrinology, cardiology): hyperadrenocorticism, hypoadrenocism, diabetes mellitus, canine hypothyroidism, feline hyperthyroidism. Mitral valve degenerative disease, dilated myocardiopathy, atrial fibrillation, left and right heart failure, feline myocardopathies, congenital heart diseases. Specific pathologies to be known: Urinary infections, feline lower urinary tract inflammation (UTI), haemolytic anemia, cholangitis-cholangiohepatitis, feline triaditis, feline hepatic lipidosis, hepatic insufficiency, portosystemic shunt, renal insufficiency, CKD, glomerulopathy, canine leishmaniasis, chronic intestinal disease (IBD, EPD), pancreatic insufficiency, pancreatitis, haemorrhagic gastroenterocolitis, lymphoma in dogs and cats, feline upper respiratory infections, canine chronic bronchitis, feline asthma, pneumonia. Horses : Approach to the colic horse. Approach to coughing, respiratory stress, weight loss, anemia, decreased performance, edema, diarrhea, dysphagia. Specific pathologies to be known: esophagus and stomach diseases, colics, chronic diarrhea, ashma, rhythm disturbances, laminitis, myositis, piroplasmosis. CLINICAL SCIENCES OF FARM ANIMALS Clinical approach at an individual and population level. Clinical approach at an individual and population level. Clinical examination. Clinical signs and diagnostic approach of the most common diseases of catle (milk fever and downer cow syndrome, calves diarrhea, respiratory diseases of calves, reticulum-peritonitis and pericarditis, chetosis and ruminal acidosis, abosamal dislocation / abomasal ulcer, foot pathologies, mastitis, bowel hemorrhagic syndrome, tick borne diseases
Books and bibliography	 zootechnical context in veterinary practice. -Ettinger SJ, Feldman EC - Clinica Medica veterinaria. Malattie del cane e del gatto, Elsevier-Masson, Milano, ultima edizione; -Nelson RW, Couto CG - Medicina Interna del Cane e del Gatto, Elsevier, Milano, ultima edizione; -Cardiologia del cane del gatto e del cavallo, Porciello F., Poletto Ed., 2010 -Reed and Bayly- Equine internal medicine, Saunders Ed.; -Manuale di Clinica del Cavallo 2/ed. di ROSE RJ.; HODGSON DR.; Antonio Delfino Editore, 2005 -Smith -Large animal internal medicine, Mosby Ed., ultima edizione -Dirksen G, Gründer HD, Stöber M (2004). Medicina interna e chirurgia del bovino. Le point Vétérinaire Italie, Milano; -Bovine di latte. Le malattie della produzione. Manuale per la prevenzione e il controllo, Zecconi, Fantini, 2014, L'informatore agrario Ed.
Additional materials	Material from teacher, individual lecture notes

Work schedule				
Total	Lectures	Hands on (Laboratory, working groups, seminars,	Out-of-cla	iss study
		field trips)	hours/	Self-study





					hours
Hours					
100	39		25		36
ECTS					1
4	3		1		
Teaching stra	tegy	videos sel to introdu carried ou are aimed asked to t practice, s through th discussion the univer topics (i.e	e course is carried out in the cla ected by the teacher. Clinical ca ice and explain the "problem so it in the small animal Clinics or i to allow a direct contact with p he interactive discussion on arc students divided into groups wil ne interpretation of laboratory f a. Some exercises could be carri- rsity. During the teaching activit . endocrinology, cardiology, oth nteer students (according to th	ises selected from the lving approach. The p in the large animal ex- patients; alternatively hival clinical cases. In I be invited to solve c tests and radiographic ed out in a kennel or ty, full-time seminars ier). Clinical cases pre	e teacher will be used practical lessons are amination room and students will be particular, during linical questions c tests with final dog breeding outside will be held on specific sented by the teacher
	rning outcomes nd understandir		e and interpretation of clinical s		pathologies.
on:		Understar Knowledg	e on the "problem solving" app nding on the role of collateral te e of an appropriate scientific la e of algorithms and differenti	ests nguage	most common clinical
Applying knowledge and understanding on:		examinati	linical problem-solving skills, be on in different animal species, t al diagnoses, to appropriately co	o formulate a diagno	stic plan and a list of
			d of the course the student is nees adopted by ECCVT: 1.4, 1.5		
Soft skills		to solve a approach • Comr The stude • Capac Students (Problem the appro skills will g path of th	aking informed judgments and choices re a clinical case on a single animal or to solve farm clinical problems, to ich diseased patients, to formulate a diagnostic and therapeutic plan. Immunicating knowledge and understanding udent will be asked to learn a correct technical medical language pacities to continue learning its will learn how to approach a clinical problem using the POA method em oriented approach) and algorithms and how to differentiate their clinical proach based on the working context. The acquired clinical problem-solving ill give them the basis to further study and approach to any clinical specialistic f the veterinary medicine. ay One Competency adopted by ECCVT 2.1, 2.5, 2.11 are expected to be ed		





Assessment and feedback	
Methods of assessment	The assessment of knowledge takes place through a practical preparatory test (clinical examination of an animal species, discussion of a clinical case afferent in the clinic) and an oral exam on topics in the program (approach to a clinical sign, differential diagnosis, knowledge of specific pathologies/ emergencies). Exercises as those proposed during practical lessons (interpretation of laboratory and collateral tests) will be also proposed. In both tests the student must demonstrate the skills acquired during the practical exercises, the knowledge and interpretation of clinical signs and associated pathologies and 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.
Evaluation criteria	 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 Applying knowledge and understanding To recognize and describe symptoms, to create a diagnostic plan, to describe a clinical case Autonomy of judgment To evaluate a clinical case or to critically approach a diagnostic plan Communicating knowledge and understanding To explain and discuss with appropriate terminology Communicate clearly Capacities to continue learning
Criteria for assessment and attribution of the final mark	To adapt skills and knowledge to new clinical scenariosThe evaluation is reported in /30. To pass the examination an evaluation > or =18/30 is asked. The access the oral examination the students need to pass thepractical test that is evaluated as idoneity The inter-course self-assessment tests donot affect the final exam in any way.The evaluation acquired in the Module "Veterinary Clinical Medicine" (4/10),together with that acquired in "Legal Veterinary Medicine" (2/10), DiagnosticImaging (2/10) and "Therapy" (2/10) will contribute to the determination of the finalvote of the integrated examination of "Veterinary Clinical Medicine".Students can take the four Exam Modules together or separately in no more thentwo different partial sessions within a maximum period of six months as follow:
Additional information	Clinical Medicine and Therapy need to be taken in the same session. Diagnostic Imaging need to be taken before or in the same session of Clinical Medicine and Therapy.