

**ACCADEMIC YEAR 2023/2024**

<b>General information</b>	
Academic subject	<b>PATIENT MANAGEMENT IN VETERINARY MEDICINE</b> integrated exam of TECHNICAL ACTIVITIES IN VETERINARY FACILITIES
Degree course	Animal Science L38
Academic Year	III year
European Credit Transfer and Accumulation System (ECTS)	3
Language	Italian
Academic calendar (starting and ending date)	II semester: 26/02/2024-14/06/2024
Attendance	Mandatory

<b>Professor/ Lecturer</b>	
Name and Surname	Fabrizio Iarussi; Maria Alfonsa Cavalera
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Department and address	Campus of Veterinary Medicine, S.P. 62 to Casamassima km 3, 70010 Valenzano (Ba)
Virtual headquarters	Microsoft Teams Platform if necessary
Tutoring (time and day)	Monday: 9.30 - 10.30 by e-mail reservation (Fabrizio Iarussi) Monday: 14.30 - 17.30 by e-mail reservation (Maria Alfonsa Cavalera).

<b>Syllabus</b>	
<b>Learning Objectives</b>	At the end of the course, students should be able to understand the professional fields of veterinary technicians and offer technical support in diagnostic and research laboratories. In addition, a further educational objective will be to enable the student to provide basic nursing care to the veterinary patient in the clinical, therapeutic, and diagnostic fields.
<b>Course prerequisites</b>	Physiology and Comparative Anatomy of Domestic Animals
<b>Contents</b>	<p><b>Lectures:</b></p> <ul style="list-style-type: none"> <li>○ Occupational Hazards;</li> <li>○ Medical Terminology</li> <li>○ Laboratory exams: Quality assurance;</li> <li>○ Type/collection/handling of biological samples;</li> <li>○ Principles of hematology and biochemistry;</li> <li>○ Serum protein electrophoresis;</li> <li>○ Cytological examination;</li> <li>○ Urinalysis;</li> <li>○ Immunology and serology;</li> <li>○ Cleaning and disinfection of rooms, instruments and equipment;</li> </ul> <p><b>Practical activities:</b></p> <ul style="list-style-type: none"> <li>○ Preparing the work environment;</li> <li>○ Anamnesis and clinical examination;</li> <li>○ Hints of Veterinary Semeiotics; Physical restraint;</li> <li>○ Instrumental diagnostics: preparation of the patient for electrocardiographic, ultrasound and endoscopic examination;</li> <li>○ Wound care;</li> <li>○ Fluid therapy;</li> <li>○ Nursing care of pets;</li> <li>○ Laboratory techniques (handling of biological samples, blood smear, biochemical exam, serum protein electrophoresis, urinalysis).</li> </ul>

<b>Books and bibliography</b>	1) Principi e Pratica Di Tecnologia Veterinaria - Paul. W. Prat. Antonio Delfino Editore. 2) Tecniche infermieristiche - Paola Rueca e Matteo Tommasini Degna. Poletto, 2007
<b>Additional materials</b>	

<b>Work schedule</b>			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
<b>Hours</b>			
<b>75</b>	<b>16</b>	<b>10</b>	<b>49</b>
<b>ECTS</b>			
<b>3</b>	<b>2</b>	<b>1</b>	
<b>Teaching strategy</b>	Frontal teaching, practical activities, interdisciplinarity, role playing, laboratory teaching, multimedia learning platforms.		
<b>Expected learning outcomes</b>			
<b>Knowledge and understanding on:</b>	<ul style="list-style-type: none"> <li>○ Knowledge of ethical, legal, and sociological sciences for understanding the organisational complexity of a Veterinary Operating Unit.</li> <li>○ Knowledge of the equipment and instrumentation commonly used in veterinary surgeries, clinics, and laboratories.</li> <li>○ Understanding of physiological and pathological processes related to the state of health and disease of the veterinary patient.</li> <li>○ Knowledge of the main biomedical laboratory techniques.</li> </ul>		
<b>Applying knowledge and understanding on:</b>	<ul style="list-style-type: none"> <li>○ Use the block of theoretical knowledge acquired from nursing, behavioural biological sciences and clinical notions to recognise the needs of the assisted animal.</li> <li>○ Ability to assist the veterinary practitioner during the different instrumental diagnostic procedures in the different phases, from animal containment to the setting up and maintenance of the equipment used.</li> <li>○ Ability to set up the work environment with all the instrumentation necessary for the clinical activity (environmental disinfectants, glassware, consumables, etc.).</li> </ul>		
<b>Soft skills</b>	<ul style="list-style-type: none"> <li>• <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> <li>○ Choice of appropriate operational procedures in the management of the veterinary patient from admission to the veterinary facility until discharge.</li> </ul> </li> <li>• <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> <li>○ Ability to interact with the animal's owners by explaining the various clinical diagnostic procedures undertaken.</li> </ul> </li> <li>• <i>Capacities to continue learning</i> <ul style="list-style-type: none"> <li>○ Ability to perform a critical review of scientific literature and independently investigate topics of professional interest.</li> </ul> </li> </ul>		

<b>Assessment and feedback</b>	
Methods of assessment	The final exam for the course "Technical activities in veterinary facilities" is oral and consists of two separate modules: "Patient management in veterinary medicine (3CFU)" and "Cytology and histopathology (2CFU)". The CFUs will be acquired after the two parts have been passed and the results have been registered on the ESSE3 portal.



Evaluation criteria	<ul style="list-style-type: none"><li>• <i>Knowledge and understanding</i><ul style="list-style-type: none"><li>○ The oral final exam will ascertain the acquisition of knowledge in accordance with the set objectives.</li></ul></li><li>• <i>Applying knowledge and understanding</i><ul style="list-style-type: none"><li>○ Ability to solve critical issues in simulations of different work scenarios (role playing and problem solving)</li></ul></li><li>• <i>Autonomy of judgment</i><ul style="list-style-type: none"><li>○ Ability to analyse and be critical about the topics studied</li><li>○ Ability to comprehensively and uniformly assess the most common clinical and epidemiological situations of livestock and pets</li></ul></li><li>• <i>Communication skills</i><ul style="list-style-type: none"><li>○ Clarity of exposition and correct use of medical terminology</li></ul></li><li>• <i>Capacities to continue learning</i><ul style="list-style-type: none"><li>○ Ability to elaborate concepts by creating links between several disciplines by an inter-disciplinary approach</li></ul></li></ul>
Criteria for assessment and attribution of the final mark	<p>The student must demonstrate that he/she has acquired full knowledge of the topics covered during the course. The final mark, expressed in thirtieths, is the result of the two partial tests. The test will be deemed passed with a mark equal to or higher than 18. The following parameters will be assessed:</p> <ul style="list-style-type: none"><li>- Relevance of the answer to the examination question.</li><li>- Clarity of exposition.</li><li>- Ability to make inter-disciplinary connections.</li></ul>
<b>Additional information</b>	