

General information	
Academic subject	<b>Practical activities I: part of the academic subject "Biosecurity in Laboratories and in dealing with animals"</b>
Degree course	Veterinary Medicine
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	25
Language	Italian
Academic calendar (starting and ending date)	IV Bimester
Attendance	Mandatory

Professor/ Lecturer	
Name and Surname	Davide Monaco
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Telephone	-
Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	Microsoft teams: code g8618vm
Tutoring (time and day)	Tuesday, Wednesday and Thursday 15.30-16-30 at the headquarter or remotely. The tutorial activity timetable and methodology (at headquarter or remote) must be confirmed upon an e-mail request.

Syllabus	
<b>Learning Objectives</b>	The course provides the scientific knowledge and the theoretical-practical skills for safe handling and restraining (biosecurity and safety in the workplace) to both healthy and sick animals (horse, cow, swine, small ruminants, camelids) for the correct implementation of veterinary procedures in a clinic/veterinary hospital or in the farm.
<b>Course prerequisites</b>	No prerequisites are requested
<b>Contents</b>	Risks associated with activities with livestock. Sensory organs and specific behaviour of different livestock species (horses, donkeys, cattle, pigs, sheep, and goats) and link/correlations with handling and restraining techniques. Notes about samples collection for diagnostic procedures (blood, faeces, urine). Notes about administration routes of drugs in the different species. The contents of the course are related to the basic sciences area and refer to professional competence 1.16 "Handle and keep animal patients safely and with respect for the animal and instruct others in helping the veterinarian to perform these techniques".
<b>Books and bibliography</b>	<ul style="list-style-type: none"> <li>- Chastain C.B. Animal Handling and Physical restraint. Taylor &amp; Francis Group, LLC 2018.</li> <li>- Chapman S.J. Safe handling and restraint of Animals, a comprehensive guide. John Wiley &amp; Sons Ltd 2018.</li> <li>- Rockett J, Boosted S. Veterinary clinical procedures in Large animal practice. 2nd Edition. Cengage Learning 2016</li> <li>- Holtgrew-Bohling K. Large animal Clinical procedures for veterinary technicians. Third edition. Elsevier 2012</li> <li>- Ballard B, Rockett J. Restraint and Handling for veterinary technicians and assistants., Cengage Learning Delmar 2009.</li> </ul>
<b>Additional materials</b>	For each topic/lecture the most appropriate book chapter/bibliographic reference will be indicated. Additional material will also be provided (links to websites, video

	tutorials or specific links related to the topics covered). It is recommended to supplement the provided material with notes from the lectures.
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Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
<b>Hours</b>			
35	0	25	10
<b>ECTS</b>			
1 CFU			
Teaching strategy			
Mainly based on practical sessions with live animals. In the event of restrictions related to the Sars-Cov2 pandemic, the blended learning mode will also be activated using the Microsoft Team platform. Applied knowledge and skills' development procedures (Approach, handling, restraining) will be provided also through lectures.			
Expected learning outcomes			
<b>Knowledge and understanding on:</b>	<ul style="list-style-type: none"> <li>○ Risks (and safety procedures) related with livestock work/environment and related with different livestock species</li> <li>○ Handling and restraining tools/methods in regard to specie-specific behavior and welfare needs</li> <li>○ Main routes of drug administrations in livestock animals</li> <li>○ Samples collection (blood, faeces, urine) in different large animal species</li> </ul>		
<b>Applying knowledge and understanding on:</b>	<ul style="list-style-type: none"> <li>○ Approach, handling and restraining procedures of livestock animals</li> <li>○ Description of correct handling and restraining methods (instruct others in helping the veterinarian to perform these techniques)</li> </ul>		
<b>Soft skills</b>	<ul style="list-style-type: none"> <li>● Making informed judgments and choices               <ul style="list-style-type: none"> <li>○ Critical evaluation of the operational context and of the psychophysical/emotional state of the animals (Aggressiveness, pain, threatening) and adoption of adequate handling/restraining</li> <li>○ Critical evaluation of the limitation of physical restraint and ability to recognize when to implement other strategies (i.e. chemical restraining, sedation)</li> </ul> </li> <li>● Communicating knowledge and understanding               <ul style="list-style-type: none"> <li>○ Demonstrate communication skills and mastering of the specific subject lexicon/terminology</li> <li>○ ability to efficiently explain livestock animal related risks and to instruct other personnel to safety measures and safe handling/restraining procedures</li> </ul> </li> </ul>		

Assessment and feedback	
Methods of assessment	Qualifying examination: that will contribute to the determination qualification for the <b>"Biosecurity in Laboratories and in dealing with animals II"</b> subject
Evaluation criteria	<ul style="list-style-type: none"> <li>● Knowledge and understanding               <ul style="list-style-type: none"> <li>○ the candidate must demonstrate knowledge about biosecurity when dealing with livestock or in livestock environment</li> <li>○ Handling and restraining tools/methods also as related to specie-specific differences</li> <li>○ Main routes of administration of drugs and procedures for blood, faeces,</li> </ul> </li> </ul>



	<p>and urine collection in the different livestock species.</p> <ul style="list-style-type: none"><li>• Applying knowledge and understanding<ul style="list-style-type: none"><li>○ candidate shall demonstrate/describe the proper approach to livestock animals and how to lead or restrain for the implementation the various veterinary skills</li></ul></li><li>• Autonomy of judgement<ul style="list-style-type: none"><li>○ Describe the psychophysical/emotional state of the animals (Aggressiveness, pain, threatening) and recommend adequate restraining methods</li></ul></li><li>• Communication skills</li><li>• Mastery and correct use of the course topic terminology</li></ul>
Criteria for assessment and attribution of the final mark	The assessment will consider the student's ability to answer comprehensively and through appropriate terminology. The candidate will be eligible if will exhaustively answer to at least two questions.
<b>Additional information</b>	