

Academic subject	
Academic subject	CITOLOGY AND HISTOPATHOLOGY (integrated exam of TECHNICAL ACTIVITIES IN VETERINARY STRUCTURES)
Degree course	Animal Science
Academic Year	2022/2023 - III year
European Credit Transfer and Accumulation System (ECTS)	2 (1+1)
Language	Italian
Academic calendar (starting and ending date)	II Semester
Attendance	Obligatory

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Virtual headquarters	Teams
Tutoring (time and day)	All days on site or on Teams, by appointment to be agreed via email

Syllabus	
Learning Objectives	The training objectives of the course are represented by the achievement of a knowledge of the common techniques of a cytological and histological preparation.
Course prerequisites	The student must have acquired basic knowledge of Anatomy and Physiology, General Pathology and Pathophysiology. To take the exam, it is necessary to have passed the preparatory exams.
Contents	Cytopathology: aims and limits of cytopathological diagnostics in veterinary practice. Techniques for taking samples for cytological examination; methods of preparation of the slides; staining of cytological preparations. General criteria for reading and interpreting a cytological preparation; recognition of artifacts. Cell morphology in cytological preparations. Histopathology: sampling techniques and methods of preparation of histological preparations. Staining of histological preparations. General criteria for reading and interpreting a histological preparation. Immunohistochemistry.
Books and bibliography	Abul K. Abbas e V. Kumar, Robbins & Cotran Pathologic Basis of Disease. Elsevier Raskin – Meye. Citologia diagnostica del cane e del gatto. EDRA
Additional materials	Lecture notes are recommended

Work schedule			
Hours			
Total	lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
50	10	25 (Exercises will be repeated in turns of about 6	15

		<i>students, on the bases of the total number of students)</i>	
CFU/ETCS			
2	1	1	

Teaching strategy	
	Lessons will take place in the classroom where power point slides and explanatory videos will be shown. For practical lessons, exercises will be held during which the different techniques for taking organ and tissue samples will be shown; the methods of preparation of the slides; the main stains used for cytological and histopathological investigations; use of the optical microscope.

Expected learning outcomes

Knowledge and understanding on:	
Applying knowledge and understanding on:	Know the technical procedures for the realization of a histological preparation; Know the technical procedures for the preparation and staining of a cytological preparation; Know the technical procedures for carrying out an immunohistochemical determination. Ability to properly use an optical microscope
Soft skills	ability to identify the suitable cytological and histopathological technique and ability to perform a shrewd preparation of the technique; Know the general criteria for the observation and interpretation of a histological, cytological, immunohistochemical preparation ,
Teaching strategy	Ability to identify and perform the appropriate cytological and histopathological technique, for a correct analysis and interpretation of the case; Appropriate use of terminology in professional practice; ability to acquire and expand knowledge in the cyto- and histopathological morphological field, also through individual and autonomous access to texts, scientific articles, specialist seminars, conferences

Assessment and feedback	
Methods of assessment	The assessment of the learning achieved by the student will consist of an oral test that will be based on the program covered.
Evaluation criteria	The student must be able to clearly elaborate the topics covered, familiarizing himself with the terms of the discipline and must correctly answer the questions proposed
Criteria for assessment and attribution of the final mark	The mark is expressed out of thirty and the highest evaluations are attributed to students capable of using the correct scientific terminology and with good exposition skills.
Assessment and feedback	