General information	
Academic subject	**MORPHOLOGICAL AND FUNCTIONAL EVALUATION OF DOMESTIC ANIMALS** (integrated exam of ANIMAL PRODUCTION I)
Degree course	Animal Science L38
Academic Year	2022/2023 – II year
European Credit Transfer and Accumulation System (ECTS)	5
Language	Italian
Academic calendar (starting and ending date)	I semester
Attendance	Mandatory

Professor/ Lecturer	
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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 (Teams Code:txww580)
Tutoring (time and day)	Thursday 13:30-16:30; Wednesday 13:30-16:30

Syllabus	
Learning Objectives	The subject, within the Degree Course, aims to increase knowledge, competencies and skills related to phenotypic evaluation of the different farm species and categories. Moreover, the subject aims to focus on the principles of the on-farm biosafety.
Course prerequisites	The prerequisite of the "Principles of physiology and endocrinology of domestic animals" exam is required. The student must know the veterinary anatomy, physiology and endocrinology of the farm animals, particularly, digestive, reproductive, galactopoietic and body growth systems and functions.
Contents	Historical notes and aims of the discipline. The identification of pets. Age determination in horses, cattle, sheep and pigs, dogs and cats. Animal mechanics, definition, aims and subdivision. Forms of decubitus in various animal species. Gaits. The elements of the morphological evaluation of domestic animals - The coats in horses, cattle, sheep and pigs. The zoognostic regions. Somatic measurements. The elements of functional evaluation - The functional control of productive aptitudes: milk production in cattle and sheep and goats; meat production; the production of wool; the production of labor. Physiological factors: somatic and sexual precocity, fecundity, fertility and prolificacy. The food processing capacity and the acclimatization capacity. Constitutional Types - The temperament, blood and background. The methods of evaluating pets. The choice of aptitude types. The morphological types of bovines, pig, ovine, caprine, equine. Animal trade. On-farm hygiene Milking hygiene, stables hygiene, foot hygiene, manure management. Recognition of the age of animals from the dental tables
Books and bibliography	- Notes of the lessons– Dialma Balasini: Zoognostica Ed.agricole BO; - Tortorelli: Zoognostica Degli Animali Domestici Edagricole BO; - Meregalli A.: Conoscenza Morfo-funzionale Degli Animali Domestici Ed.Liviana

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Additional materials	The additional teaching material is provided by the teachers at the beginning of the course and is available on the TEAMS teaching platform

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
125	***40***	***25***	***60***
ECTS			
5	***4***	***1***	

Teaching strategy	The teaching will mainly consist of lectures with the help of power point presentations. Reverse teaching and periodic verification of the level of learning on the topics already carried out. Before starting the course, the minimum entry skills on the anatomy and physiology of animals will be verified. Students divided into groups of 8-10 people, followed and guided by the teacher and collaborators, participate in working groups for the recognition of the age of the animals and of the breed through the study of coats
Expected learning outcomes	
Knowledge and understanding on:	The student will be able to: o Know the techniques for the morphological and functional evaluation of a farm animal, according to its production aptitude o Know the fundamentals of on-farm biosafety o Know the national and international bodies and laws related to phenotype collection
Applying knowledge and understanding on:	The student will be able to show: o Competence in evaluating the productive merit of an animal based on its morphological and functional characteristics o Competence in age estimation of a farm animal o Recognize morphological and functional defects in an animal and estimate their impact on production efficiency
Soft skills	• Making informed judgments and choices o Ability to collect information directly from the farm, from manwork and from the data available at farm level to assess the management quality o Ability to analyze test day controls reports • Communicating knowledge and understanding o Specific communication skills both with breeders and with specialized technical consultants • Capacities to continue learning o Ability to find technical information through bibliographic research or through contacts with public and private bodies.

Assessment and feedback	
Methods of assessment	
Evaluation criteria	• Knowledge and understanding o To know the theoretical foundations relating to the evaluation of an animals through morphological and functional phenotypes • Applying knowledge and understanding

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	o Ability in evaluating the quality of an animal according to phenotyping • Autonomy of judgment o Being able to formulate a personal judgment based on the phenotype data in relation to the estimated animal efficiency • Communicating knowledge and understanding o Knowing how to use specific technical terminology appropriately • Capacities to continue learning o Demonstrating knowledge of the available sources to find data and information useful in evaluating the animal phenotype
Criteria for assessment and attribution of the final mark	• The final grade is awarded out of thirty. The exam is passed when the mark is greater or equal than to 18. The final mark of the integrated exam is the result of the arithmetic average of the marks obtained for each of the courses. In any case, the student must acquire a mark greater than or equal to 18/30 for each part of the exam relating to the two courses of Animal production I.
Additional information	

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