

Academic subject: Morphofunctional evaluation of animals in production			
Degree Class: L38		Degree Course: Animal Science	
		Academic Year: 2020/2021	
		Kind of class: mandatory	
		Year: II	Period: I semester
		ECTS: 5 divided into ECTS lessons: 4 ECTS exe/lab/tutor: 1	
Time management, hours, in-class study hours, out-of-class study hours lesson: 40 exe/lab/tutor: 25 in-class study: 0 out-of-class study: 60			
Language: Italian		Compulsory Attendance: Yes	
Subject Teacher: Prof. Alessandra Tateo		Tel: 0805443937 e-mail: alessandra.tateo@uniba.it	
		Office: Department of Veterinary Medicine Room Floor	
		Office days and hours: Tuesday and Thursday: 02:30 pm-04:30 pm	
Prerequisites: Principles of physiology and endocrinology of domestic animals The minimum entry skills on anatomy will be verified and physiology of animals			
Educational objectives: The course aims to provide the necessary skills to assess the productive aptitude of the animals of zootechnical interest, starting from the morphological and functional evaluation of the same. Also, it will provide information relating to zootechnical hygiene			
Expected learning outcomes (according to Dublin Descriptors)		<p>Knowledge and understanding: Student must acquire skills for morphological evaluation of livestock and for the basic concepts of zootechnical hygiene. They learn concepts relating to rearing technology of different species farm animals, and meat, and milk production. On the base of this knowledge, students will be able to evaluate products quality and how production operations can influence it. The student must acquire the technical terminology, must know the fundamental principles the morphological and functional evaluation of each species and productive type of zootechnical interest. The student must show knowledge of the concepts of statics and kinetics of the animal body and topographic anatomy and animal physiology</p> <p>Applying knowledge and understanding: The student will be able to evaluate the attitude of a subject towards a particular one production direction, being also able to detect the criticality and improvement margins of the subject with respect to the production purpose for which it is intended.</p> <p>Making judgements: The student will also acquire the skills for contextualize this evaluation in the various application sectors, such as buying and selling, evaluation phenotypic, and punctuation aimed at selection programs.</p> <p>Communication: The student must know the technical terms necessary to communicate with the employees of the livestock sector</p> <p>Lifelong learning skills: Students will acquire the theoretical and practical knowledge relating to the morphological and functional evaluation of animals of zootechnical interest, the basis for their selection and genetic improvement and indispensable in the buying and selling phase of the subjects or estimating the company assets.</p>	

Course program

Historical notes and aims of the discipline. Animal husbandry: Morphological evaluation of the animal. Anatomical regions determination and their importance for aesthetic and productive efficiency: strengths and weaknesses. Practice Zoometric measurements and relating indexes Livestock coat types. Age determination in cattle, horses, and dog. Features of coats. Definition and setting of the subject. Procedures for the age determination. Animal facilities evaluation Morphological evaluation of the animal. Animal mechanics, definition, aims. Forms of decubitus in various animal species. Gaits. The elements of evaluation morphology of domestic animals - The coats of horses, cattle, sheep and pigs. Control functional of productive attitudes: milk production in cattle and sheep and goats; production some meat; the production of wool; the production of labor. Physiological factors: somatic earliness e sexual, fecundity, fertility and prolificacy. The food processing capacity and the ability to acclimatize. Constitutional types. The methods of evaluating pets. The choice of aptitude types.

Zootechnical hygiene: definition, bases, purpose, importance. Disinfectants and disinfection. Milking hygiene. Udder and milking hygiene. Physical, chemical, organoleptic requirements and organic drinking milk. The main antiseptics and disinfectants in use. The transport of animals. Hygiene of the slaughterhouse and quality of meat. Hygiene of foodstuffs for livestock. Cleaning and preparation of animals. Hygiene and characteristics of the stables and shelters. The droppings of the animals. Breast and milking hygiene. Requirements physical, chemical, biological and organoleptic of milk. The transport of animals.

Teaching methods

Frontal lessons will regard morphological evaluation of the animal, breeding system and products quality. Students will be asked to interact with the teacher about the subjects in progress. The course also will include practical activities, face-to face lectures, lab workshops to develop the analytical approach to evaluate the analytical composition of animal source foods and extra-mural work buying and selling phase of the subjects or estimating the company assets

Auxiliary teaching: white coat or disposable coat, disposable gloves, cap.

Assessment methods:

Student will be evaluated by traditional marking parameters (18-30/30) during the oral examination. The exam will be oral and the questions will concern the program macro-areas. Part of the exam will be based on age determination through the recognition of dental boards of cattle, horses, goats and dogs.

This consists of asking the candidate no less than 4 points-related questions of the program, whose purpose is to verify knowledge and discussion skills criticism of the program topics. The evaluation obtained in the two modules will contribute to establishing the final grade.

Bibliography:

- Appunti delle lezioni. - Dialma Balasini: Zoognostica Ed.agricole BO; - Tortorelli: Zoognostica Degli Animali Domestici Edagricole BO; - Meregalli A.: Conoscenza Morfo-funzionale Degli Animali Domestici Ed.Liviana