

General information	
Academic subject	Quality of Products of Animal Origin, Improvement and Methods of Evaluation
Degree course	Scienze e Tecnologie Agrarie (L-25) Scienze e Tecnologia del Territorio e dell'Ambiente agro- forestale(L-25)
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	6
Language	Italian
Academic calendar (starting and ending date)	01/03/2021 - 17/06/2021
Attendance	strongly recommended

Professor/ Lecturer	
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Virtual headquarters	<i>Piattaforma Team (codice xuhj2ee)</i>
Tutoring (time and day)	Monday- Thursday on appointment, (08:00 – 17:00).

Syllabus	
Learning Objectives	<ul style="list-style-type: none"> - Knowledge of the main zootechnical productions and consumptions in Italy and Europe. - Knowledge of the main chemical-nutritional and organoleptic parameters of products of animal origin. - Knowledge of some systems and methods to improve the quality of zootechnical products. - Knowledge of the main methods of quality assessment of products of animal origin.
Course prerequisites	Knowledge of anatomy, physiology, morphology, and husbandry technologies of livestock of interest to animals.
Contents	<p>Frontal teaching and group activities:</p> <ul style="list-style-type: none"> - Production and consumption of animal origin products in Italy and the EU. - Parameters of chemical-nutritional, organoleptic, technological quality of animal products and influencing factors. - Systems and methods for improving the quality of livestock products. - Methods of quality assessment of products of animal origin. <p>Exercises</p> <ul style="list-style-type: none"> - Technical visits to livestock farms and laboratories of analysis of food of animal origin.
Books and bibliography	<ul style="list-style-type: none"> • <i>Notes from lectures and course materials distributed during the course.</i> • <i>G. Bittante, I. Andrighetto, M. Ramanzin, Tecniche di produzione animale, Liviana Editore.</i> • <i>Cerolini S., Marzoni M., Romboli I., Schiavone A., Zaniboni</i> • <i>L. (2008) - Avicoltura e Conigliicoltura. Le Point Veterinaire, Milano.</i> • <i>A. Giussani. Il latte di qualità. Edizioni Edagricole.</i> <p><i>Per approfondimenti:</i></p> <ul style="list-style-type: none"> • <i>G.M. Tantillo. La produzione igienica della carne. Edagricole.</i> • <i>N. Montemurro. Igiene zootecnica. Come favorire la salute e il benessere degli animali in allevamento. Edagricole.</i>
Additional materials	

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
150	50	10	90
ECTS			
	5	1	
Teaching strategy			
<i>Lectures, exercises in the classroom, in the laboratory and on livestock farms</i>			
Expected learning outcomes			
Knowledge and understanding on:	<ul style="list-style-type: none"> ○ Knowledge of animal breeding techniques for the improvement of production quality. ○ Knowledge of the nutritional, organoleptic and technological characteristics of products of animal origin and understanding of influencing factors. ○ Knowledge of the principal methods of evaluating the quality of products of animal origin. 		
Applying knowledge and understanding on:	<ul style="list-style-type: none"> ○ Ability to apply breeding technologies for the improvement of the quality of the productions. ○ Ability to evaluate the quality characteristics of primary animal products. 		
Soft skills	<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> ○ Ability to analyze different production systems. ○ Ability to manage and verify breeding technologies to improve the quality of livestock production. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Ability to communicate and relate effectively within a working group. ○ Ability to communicate with operators, both technical and non-technical, of the production chains as well as with managers of public and/or private bodies. • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Ability to deepen and update one's knowledge in the specific field and related areas, according to a multidisciplinary approach. 		

Assessment and feedback	
Methods of assessment	A waiver is provided for current students. It consists in an oral test. The result of this test contributes to the evaluation of the exam and is valid for one academic year. The exam consists of an oral test that will focus on the topics covered during the frontal lessons and exercises.
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ Level of detail in explaining the quality characteristics of animal products and influencing factors. ○ Level of detail in the description of techniques of animal breeding in relation to the quality of products. ○ Level of detail in the description of methods for evaluating the quality of products of animal origin. • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ Methodological approach in the evaluation of the qualitative characteristics of zootechnical products, the most suitable breeding techniques for their improvement and knowledge of the methods of evaluation of product

	<p>quality parameters.</p> <ul style="list-style-type: none"> • <i>Autonomy of judgment</i> <ul style="list-style-type: none"> ○ Ability to analyze the different production systems in order to improve the quality of livestock products. ○ Capacity of management and verification of the systems and methods for the quality improvement of the products of animal origin. ○ Ability to evaluate the quality characteristics of zotechnical products. • <i>Communication skills</i> <ul style="list-style-type: none"> ○ Effectiveness and clarity in the exposition of topics. • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Level of depth and multidisciplinary connection of topics covered.
Criteria for assessment and attribution of the final mark	<p>The evaluation is expressed in thirtieths. For students who have taken the exoneration test, the evaluation of the profit exam is expressed as the arithmetic mean of the evaluations of the exoneration tests and of the exam.</p> <p>The evaluation of the student's preparation takes place on the basis of pre-established criteria, as detailed in attachment A of the Didactic Regulations of the Degree Course.</p>
Additional information	