

General information on the course				
Academic subject	Animal Nutrition and Feeding (module of I.C. Animal Husbandry)			
Degree course	Sustainable Agriculture Techniques - LP 02			
Academic years	2021/2022			
European Credit Transfer and Accumulation System (ECTS)	2 (1.5 CFU Lectures + 0.5 CFU Laboratory and training activity)			
Academic discipline	AGR/18 – Animal Nutrition and Feeding			
Attendance	No			
Language	Italian			
Teacher				
Name and Surname	Maria Antonietta Colonna			
Department and address	Department of Agricultural and Environmental Science, University of Bari, Campus, Via Orabona 4, 70126, Bari			
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Phone number	080 5442236			
Tutoring	Monday and Wednesday 10.30-12.30, upon appointment requested by e-mail, in the teacher's office (room II-13 at the Department of Agricultural and Environmental Science, 2° floor Animal Production Sciences). Tutoring can be also performed by using e-learning platforms.			
Class schedule				
Period	2 nd semester			
Year	1 st year			
Type of class	Lectures and Lab training activity			
Academic calendar				
Class beginning	01/03/2022			
Class end	17/06/2022			
Syllabus				
Prerequisites/requirements	Knowledge of chemistry, biology, anatomy and animal physiology			
Expected learning outcomes	Knowledge of feeding strategies in different livestock species (cattle, pigs, sheep and goats, horses, rabbits, poultry)			
Contents	Composition and nutritional value of animal feeds. Dietary requirements in relation to the animal physiological state and feed intake (maintenance, gestation, growth, production of meat, milk, eggs, work). Nutrition and feeding in cattle, sheep and goats, pigs, horses, rabbits and poultry. Animal feed technology: outline of legislation on feed preparation and innovative technological treatments of feeds.			
Bibliography	<ul style="list-style-type: none"> •Lesson notes. •Scientific papers. 			
Notes	Supplementary material will be distributed during the class.			
Class time management				
Hours	Total	Lectures	Lab training and on farm activity	Individual study
	50	16	4	30
Teaching methods	The course will be carried out using PowerPoint presentations through technology enhanced lessons (lectures integrated with distance learning). Classroom and laboratory exercises or technical-practical lessons will also be performed at feed industries and livestock farms.			
Expected learning outcomes				

Knowledge and comprehension ability	Knowledge and understanding about animal feeds, their nutritional value, the technological treatments applied.
Knowledge and applied comprehension ability	Acquisition of skills for the formulation of food rations in different livestock animals in relation to the physiological requirements.
Specific and soft skills	<p><i>Autonomy of judgement</i></p> <ul style="list-style-type: none"> • Ability to autonomously judge the animal farm context; • Ability to formulate diets able to safeguard animal welfare and livestock production and quality. <p><i>Communication skills</i></p> <ul style="list-style-type: none"> • Ability to describe feeding techniques and their influence on animal production. <p><i>Learning ability</i></p> <ul style="list-style-type: none"> • Ability to deepen, study and gain update on new animal feeding techniques.
Profit exam assessment methods	<p>Oral exam aiming to assess knowledge and skills on the topics developed during the lectures and the technical-practical activities.</p> <p>Students will be able to take the exemption test; the final evaluation will be the result of the average of the marks obtained during the exemption and the exam.</p> <p>For foreign students the oral exam will be held in English.</p>
Evaluation criteria	<p><i>Knowledge and comprehension ability</i></p> <ul style="list-style-type: none"> • Ability to describe the chemical, technological and nutritional features of animal feeds. <p><i>Knowledge and applied comprehension ability</i></p> <ul style="list-style-type: none"> • Ability to formulate the animal diet in relation to its requirements and productive attitude (growth, pregnancy, lactation, egg production, etc.). <p><i>Autonomy of judgement</i></p> <ul style="list-style-type: none"> • Ability to apply the knowledge/skills in a practical-field context and to identify corrective actions. <p><i>Communication skills</i></p> <ul style="list-style-type: none"> • Ability to describe processes and products showing knowledge of the specific technical-scientific language related to animal nutrition, feeding and husbandry. <p><i>Learning ability</i></p> <ul style="list-style-type: none"> • Ability to apply knowledge and skills in problem solving activities in order to solve new and complex theoretical-practical problems.