



General information					
Animal Nutrition (i.c. Animal Production II)					
Animal Science					
2021/2022					
European Credit Transfer and Accumulation System (ECTS) 6					
Italian					
nding date) II semester (February, 28 th 2022 –June, 17 th 2022)					

Professor/ Lecturer	
Name and Surname	Vincenzo Tufarelli
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Telephone	080 544 3918
Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	Microsoft Teams
Tutoring (time and day)	Monday and Wednesday 2.30-3.30 pm According to an appointment requested by
	e-mail. Tutoring can be done using e-learning platforms.

Syllabus		
Learning Objectives	Nutritional evaluation of animal feeds. Rationing of the main livestock species:	
	cattle, sheep, goats, pigs, horses, poultry, rabbits and pets.	
Course prerequisites	Exam : Physiology and Endocrinology of domestic animals: basic knowledge	
	Basic knowledge of biochemistry, animal physiology and anatomy.	
Contents	Chemical composition of feeds of zootechnical interest: carbohydrates, lipids,	
	nitrogenous substances, minerals and vitamins. Evaluation feeds quality. Digestion,	
	absorption, and metabolism in monogastric and ruminant species.	
	Nutritional value: digestibility, systems of expression of the energy and protein value	
	in the different species. Animal feeds: green and preserved fodder (hay, haylage,	
	silage), cereals and their by-products, oilseeds and by-products. Residues from the	
	food/feed industry, mineral and vitamin supplements, natural additives. Nutritional	
	requirements and rationing factors of animals in maintenance, gestation, growth,	
	production (meat, milk, eggs). Rationing of livestock species: cattle, sheep, goat, pig,	
	horse, rabbit, poultry and pets. Feed technology: principles of legislation on feed	
	preparation and innovative technological treatments of animal feeds.	
Books and bibliography	• Antongiovanni M. Gualtieri M., Nutrizione e alimentazione animale,	
	Bologna, Edagricole., 1998 • Pulina G., L' alimentazione degli ovini da latte. Avenue	
	Media, 2001. • Martin-Rosset W., L'alimentazione dei cavalli, Bologna, Edagricole,	
	1994 • Mordenti, N. Rizzitelli, D. Cevolani, Manuale di alimentazione del suino,	
	Bologna, Edagricole, 1992. • Lessons notes. • Scientific papers.	
Additional materials	Lessons distributed during the course integrate the reference bibliography.	

Work schedule				
Total	Lectures	Hands on (Laboratory, working groups, seminars field trips)	Out-of-class study hours/ Self-study hours	
Hours				
150	50	25	75	

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ECTS				
6	5		1	
Teaching strategy	Teaching strategy			
		The co	purse contents will be treated with support of PowerPoint presentations in the	
		classr	oom.	
Expected learning	g outcomes			
Knowledge and understanding		С	Knowledge of the field and laboratory techniques for the nutritional	
on:			evaluation of feeds of zootechnical interest.	
Applying knowle	dge and	С	The student must be able to relate the quantitative and qualitative	
understanding or	n:		characteristics of the animal production to the characteristics of the diet	
			supplied.	
Soft skills		• A	1aking informed judgments and choices	
		С	Ability to independently judge data related to zootechnical issues or to	
			represent and solve problems inherent to animal feeding.	
		• C	ommunicating knowledge and understanding	
		C	Rationing of livestock and companion animals: cattle, sheep and goat, pig,	
			horse, poultry, rabbit and pets.	
		• C	apacities to continue learning	
		С	Ability to maintain, develop and expand the knowledge acquired.	

Assessment and feedback				
Methods of assessment	Oral or written exam on topics as for program. The student must demonstrate the			
	skills acquired during the course, the knowledge of the principles of animal nutrition;			
	the student will have to demonstrate mastery of technical language and the			
	relationship between animal nutrition and quality of livestock production.			
Evaluation criteria	Knowledge and understanding			
	 Knowledge of the field and laboratory techniques for the nutritional evaluation of feeds of zootechnical interest. 			
	Applying knowledge and understanding			
	 The student must be able to relate the quantitative and qualitative 			
	characteristics of the animal production to the characteristics of the diet			
	supplied.			
	Autonomy of judgment			
	 The student will have to demonstrate that he is able to make his own 			
	judgments, including through the autonomous processing and application of the knowledge and skills acquired.			
	Communicating knowledge and understanding			
	 Rationing of livestock and companion animals: cattle, sheep and goat, pig, horse, poultry, rabbit and pets. 			
	 The student must have property of language and expository clarity, also in using of specific scientific and technical terminology. 			
	Capacities to continue learning			
	 Ability to maintain, develop and expand the knowledge acquired. 			
Criteria for assessment and	The final grade is awarded out of thirty. The exam is passed when the grade is			
attribution of the final mark	greater than or equal to 18/30. The evaluation acquired in this exam, and in Rabbit,			
	Poultry Science and Aquaculture, will contribute to the final evaluation of the			
	integrated examination of Animal Production II.			
Additional information				