

Academic subject: Animal Nutrition			
Degree Class: L38		Degree Course: Animal Science	
		Academic Year: 2020/2021	
		Kind of class: mandatory	
		Year: II	Period: II semester
		ECTS: 6 divided into ECTS lessons: 5 ECTS exe/lab/tutor: 1	
Time management, hours, in-class study hours, out-of-class study hours lesson: 50 exe/lab/tutor: 25 in-class study: 0 out-of-class study: 75			
Language: Italian		Compulsory Attendance: yes	
Subject Teacher: Vincenzo Tufarelli		Tel: 080 544 3918 e-mail: vincenzo.tufarelli@uniba.it	
		Office: Department of DETO Room 39 Floor 1	
		Office days and hours: Monday and Wednesday 14.30-15.30. According to an appointment requested by e-mail. Tutoring can be done using e-learning platforms.	
Prerequisites: Basic knowledge of biochemistry, animal anatomy and physiology			
Educational objectives: Nutritional evaluation of livestock feeds. Rationing of the main livestock species: cattle, sheep, goats, pigs, horses, poultry, rabbits and pets.			
Expected learning outcomes (according to Dublin Descriptors)		<p>Knowledge and understanding: Knowledge of the field and laboratory techniques for the nutritional evaluation of feeds of zootechnical interest.</p> <p>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.</p> <p>Making judgements: Ability to independently judge data related to zootechnical issues or to represent and solve problems inherent to animal feeding.</p> <p>Communication: Rationing of livestock animals: cattle, sheep and goat, pig, horse, poultry, rabbit and pets.</p> <p>Lifelong learning skills: Ability to maintain, develop and expand the knowledge acquired.</p>	
Course program 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, 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.			
Teaching methods: The course contents will be treated with support of PowerPoint presentations in the classroom.			

Auxiliary teaching:

Lessons distributed during the course integrate the reference bibliography.

Assessment methods:

Oral 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.

Bibliography:

- Lessons notes.
- Scientific papers.
- Antongiovanni M. Gualtieri M., Nutrizione e alimentazione animale, Bologna, Edagricole.
- Pulina G., L'alimentazione degli ovini da latte. Avenue Media, 2001.
- Martin-Rosset W., L'alimentazione dei cavalli, Bologna, Edagricole.
- Mordenti, N. Rizzitelli, D. Cevolani, Manuale di alimentazione del suino, Bologna, Edagricole.