DISCIPLINE DESCRIPTION

1. Program data

1.1 Higher education institution	UNIVERSITY OF ORADEA
1.2 Faculty	Environment protection
1.3 Department	Animal science and Agroturism
1.4 Field of study	Animal Science
1.5 Study cycle	BACHELOR
1.6 Study Program / Qualification	Animal science/ engineer

2. Discipline data

2.1 Name of the discipline			NUTRITION AND ANIMAL FEEDING II					
2.2 Course holder			Prof. dr. Mierlita Daniel					
2.3 Seminar / labor owner	atory	/ project	Prof. dr. Mierlita Daniel					
2.4 Year of study	III	2.5 Semeste	er	V	2.6 Type of evaluation	E	2.7 The discipline regime	Ι

(I) Impusă; (O) Opțională; (F) Facultativă

3. Estimated total time (hours per semester of didactic activities)

3.1 Number of hours per week	4	of which: 3.2	2	3.3	2	
		course		seminar/laboratory/project		
3.4 Total hours of the curriculum	56	of which: 3.5	28	3.6 seminar / laboratory /	28	
		course		project		
Distribution of Time Fund					ore	
Study after manual, course support, bit	oliogra	phy and notes			20	
Additional documentation in the library, on the specialized electronic platforms and on the field						
Training seminars / laboratories, theme	Training seminars / laboratories, themes, papers, portfolios and essays					
Tutorial						
Examinations					8	
Other activities						
3.7 Total hours of individual study	60				•	
3.0 Total hours nor comostor	120					

3.9 Total hours per semester133.10 Number of credits6

4. Preconditions (where applicable)

4.1 curriculum	
4.2 skills	

5. Conditions (where applicable)

5.1. of course	The lecture room with laptop and videoprojector.
5.2. seminar / laboratory /	Laboratory room equipped with the equipment necessary to determine the
project	nutrient content and appreciation of the feed quality; computers, Internet
	connection, specialized software.

	6. S	pecific	skills	accumulated
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Professional skills	 C1: Elaboration, implementation and coordination of technological processes specific to animal and aquatic animal breeding. C2: Elaboration of technical projects for the establishment / modernization of livestock breeding, fish farming and aquaculture and for accessing financial resources. C3: Selection, amelioration, production and exploitation of biological reproductive material. C5: Implementation of Community Agricultural Policy at national level in the field of animal production. C6: Provide consultancy and extension services in the field of animal husbandry.
Transversal skills	CT2 Applying effective communication techniques in team-specific activities; taking a role in it and respecting the principles of division of labor. CT3 Objective self-evaluation of the need for continuous professional training in order to adapt and respond to the economic requirements; the use of information and communication techniques and at least one international language.

7. Objectives of the discipline

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7.1 The general objective of the	To communicate to students the concepts, notions and					
discipline	experimental data on:					
	□ Nutrients and their nutritional importance,					
	□ digestive use and nutritional value of fodder, in the context					
	of proper nutrition;					
	□ establishing the nutritional requirements of animals.					
7.2 Specific objectives	☐ Knowledge of the anatomical-physiological and					
	biochemical bases of nutrition;					
	□ Determining the nutritional value of the feed relative to					
	the species;					
	□ Optimization of feed ratios for the combined feed structure					
	in relation to the species, age, form and level of production.					

8.Ccontents *

8.1 Cours	teaching methods	Nr. Hours /
	_	Observations
Standard feeding of domestic animals. Influence of nutrition on quantitative and qualitative production in animals. Establishing nutrient requirements for vital functions and for different forms of production.	Lecture, explanation, conversation and dialogue with students heuristics	2
Voluntary consumption of food and the behavior of animals.	Lecture, explanation, conversation and dialogue with students heuristics	2
The feed of cattle. Characteristics of digestion and capitalization of feed in cattle. Feeding of breeding bulls, pregnant cows and lactation. Nutrition of calves and breeding youngsters.	Lecture, explanation, conversation and dialogue with students heuristics	6

Feeding of cattle under fattening.				
Sheep diet. Characteristics of digestion and capitalization of sheep feed.	Lecture, explanation, conversation and dialogue with students heuristics	4		
Lamb feeding and breeding youth.				
Feeding of sneep.	Lecture explanation			
Characteristics of digestion and exploitation of horse feed. Nutrition of adult breeding horses. Feeding of horse and youth.	conversation and dialogue with students heuristics	2		
Feeding pigs. Features of digestion and feed utilization of pigs. Feed of adult breeding pigs. Feeding piglets and breeding youngsters. Feeding of fattening pigs.	Lecture, explanation, conversation and dialogue with students heuristics	4		
Bird feeding. Characteristics of digestion and exploitation of food in birds. Feeding of hens (laying hens, replacement youth, broilers). The turkey dist	Lecture, explanation, conversation and dialogue with students heuristics	4		
Food of palm-trees				
Eating rabbits	Lecture, explanation, conversation and dialogue with students heuristics	1		
Fish feeding	Lecture, explanation, conversation and dialogue with students heuristics	2		
Dog and cat food	Lecture, explanation, conversation and dialogue with students heuristics	1		
Deferences				
DRINCENU D. (1994) - Alimentația animalelor domestice. Ed. Euroart, Timișoara. HALGA P. și col. (2000) – Nutriție animală. Ed. Dosoftei, IAȘI. HALGA P. și col. (2002) –Alimentație animală. Ed. Pim, IAȘI. MCDONALD; R.A. EDWARDS; JFD GREENHALGH; C.A. MORGAN (2002) – Animal nutrition. Pearson, Prentice Hall. MARCU N.; D. MIERLIȚĂ (2006) – Zootehnie generală și alimentație. Ed. Digital Data; Cluj- Nanoca				
MIERLITA D. (2008) – Nutritia si alimentatia animalelor-Curs universitar. Ed. Universitatii din Oradea. MIERLITA D. (2008) – Nutritia animalelor domestice. Ed. AcademicPres, Cluj-Napoca.				

POP I.M. (2002) - Aditivi furajeri. Ed. Pim, IAȘI.

POND W. G.; D.C. CHURCH; K. R. POND (1995) – Basic animal nutrition and feeding. Fourth Edition – Wiley; New York.

POPA O.; GH. SĂLĂJAN; A. ŞARA (1991) – Nutrețurile și nutriția rațională a animalelor de fermă. Ed. Ceres, București.

SĂLĂJAN GH. (1984) – Prepararea nutrețurilor și controlul calității lor. Ed. Ceres, București. STOICA I. (2001) – Nutriția și alimentația animalelor. Ed. Coral Sanivet, București. ȘARA A.; D. MIERLIȚĂ (2003) – Nutriția și alimentația animalelor de fermă. Ed. AcademicPres, Cluj-Napoca.

8.2 Seminar	teaching methods	Nr. Hours / Observations
8 3 Laboratory		
Optimization of sheep feed ratios (winter - summer).	lecture, explanation, dialogue with students, individual and team activities.	2
Optimization of feed ratios in horses (winter - summer).	lecture, explanation, dialogue with students, individual and team activities.	2
Optimization of feed ratios in pigs (winter - summer).	lecture, explanation, dialogue with students, individual and team activities.	2
Optimization of rations in rabbits (winter - summer).	lecture, explanation, dialogue with students, individual and team activities.	1
Optimization of recipes for mixed pig feeds (all age and production categories: sows, pigs, infant and wean piglets, pig breeding pigs and fattening pigs).	lecture, explanation, dialogue with students, individual and team activities.	3
Optimization of recipes for combined fodder for birds (chickens: breeding, consumption eggs, replacement youth and broilers).	lecture, explanation, dialogue with students, individual and team activities.	3
Optimizing recipes for mixed feed for rabbits, fish.	lecture, explanation, dialogue with students, individual and team activities.	1
8 / Project		
Optimization of feed ratios in dairy cows (winter - summer).	explanation, dialogue with students, individual activities.	2
Calculation of production and consumption indicators in dairy cows.	explanation, dialogue with students, individual activities.	1
Optimization of feeding ratios in intensive and semiintensive cattle for young cattle.	explanation, dialogue with students, individual activities.	2
Calculation of production and consumption indices for fattening young cattle.	explanation, dialogue with students, individual activities.	1
Optimization of recipes for mixed pig feeds (all age and production categories: sows, pigs, infant and wean piglets, pig breeding pigs and fattening pigs).	explanation, dialogue with students, individual activities.	3
Calculation of production and consumption indices for breeding sows and juveniles.	explanation, dialogue with students, individual	1

	activities.	
Optimization of recipes for combined fodder for birds (chickens: breeding, consumption eggs, replacement	explanation, dialogue with students, individual	3
youth and broilers).	activities.	
Calculul indicilor de productie si consum la gainile oua consum si puii de carne.	explanation, dialogue with students, individual activities.	1

References:

DRINCENU D. (1994) - Alimentația animalelor domestice. Ed. Euroart, Timișoara.

HALGA P. și col. (2000) – Nutriție animală. Ed. Dosoftei, IAȘI.

HALGA P. și col. (2002) - Alimentație animală. Ed. Pim, IAȘI.

MIERLITA D. (2008) – Nutritia si alimentatia animalelor-Curs universitar. Ed. Universitatii din Oradea.

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SĂLĂJAN GH. (1984) – Prepararea nutrețurilor și controlul calității lor. Ed. Ceres, București. STOICA I. (2001) – Nutriția și alimentația animalelor. Ed. Coral Sanivet, București.

ŞARA A.; D. MIERLIȚĂ (2003) – Nutriția și alimentația animalelor de fermă. Ed. AcademicPres, Cluj-Napoca.

9. Corroborating the contents of the discipline with the expectations of epistemic community representatives, professional associations and representative employers in the field of the program

The thematic content of the Nutrition and Nutrition discipline is in line with that of other university centers in the country and abroad. It is developed in collaboration with the representative employers in the field of animal husbandry (zootechnical farms, combined feed factories), where the students practice, thus facilitating the graduation of the students.

10. evaluation

Tip activitate	10.1 Evaluation criterias	10.2 Metode de evaluare	10.3 Weight of the final grade
10.4 Cours	correctness and completeness of knowledge; - logical coherence; - degree of assimilation of specialized terms - interest in individual study.	continuous evaluation (student's free exposure, oral conversation and questioning, active student participation in courses) summative assessment (final written assessment during the oxam sassion)	20%
10 5 Seminar			1070
10.6 Laboratory	 the ability to work with assimilated knowledge; the capacity to operate with the data and the results obtained in the laboratory; 	continuous assessment (current written papers, individual papers, active participation of the student in laboratory activities) Summative assessment	25%

	- interest in individual	(final written assessment		
	study.	during the exam		
		session).	15%	
10.7 Project				
10.8 Minimum performance standard: Very good knowledge of one subject out of two; the score given for				
the periodical checks during the semester should be at least 5; marking "very good" at least 1/2 of the				
papers (homeworks) handed over during the year; attending at least 80% of the teaching activities.				

Date of completion

Signature of course holder

01. 10. 2022

Prof. dr. ing. Mierlita D. (dadi.mierlita@yahoo.com)

Signature of holder seminar/laboratory/project Prof. dr. ing. Mierlita D.

Date of approval in the department

Signature of Department Director Lecturer dr. ing. Monica Dodu

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Sign Decan Conf. Dr. Ing. Cristina Maerescu