



No. _____ of _____

USAMV form 0102030104

SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Agriculture
1.3. Department	II Plant culture
1.4. Field of study	Agronomy
1.5. Cycle of study ¹	Bachelor
1.6. Specialization/ Study programme	Montanology
1.7. Form of education	Full time

2. Information on the discipline

2.1. Discipline name	Animal husbandry and animal nutrition 1							
2.2. Course coordinator	Phd. Lecturer Adriana Morea							
2.3. Seminar/ laboratory/ project coordinator	Phd. Lecturer Adriana Morea							
2.4. Year of study	III	2.5. Semester	I	2.6. Evaluation type	continuous	2.7. Discipline status	Content ²	DS
							Compulsoriness ³	DI

3. Total estimated time (teaching hours per semester)

3.1. Hours per week - full time programme	4	out of which: 3.2. lecture	2	3.3. seminar/ laboratory/ project	2
3.4. Total number of hours in the curriculum	56	out of which: 3.5. lecture	28	3.6. seminar/laboratory	28
Distribution of the time allotted					hours
3.4.1. Study based on books, textbooks, bibliography and notes					22
3.4.2. Additional documentation in the library, electronic platforms and field experiences					15
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					15
3.4.4. Tutorials					7
3.4.5. Examinations					10
3.4.6. Other activities					
3.7. Total hours of individual study	69				
3.8. Total hours per semester	125				
3.9. Number of credits ⁴	5				

4. Prerequisites (if applicable)

4.1. curriculum-related	Biochemistry, Botany, Animal anatomy, Forage crops
4.2. skills-related	The student must have knowledge regarding aspects related to the organization of the forage base in farms

5. Conditions (if applicable)

5.1. for the course	The course is interactive, students can ask questions about the content of the exhibition. The university discipline requires the observance of the start and end time of the course. No other activities are tolerated during the lecture, mobile phones should be closed.
5.2. for the seminar/ laboratory/ project	In the practical work each student will participate in the activities carried out with laboratory materials, molds, sheets, etc. Academic discipline is required throughout the duration of the work.

6. Cumulated specific competences

Professional competences	<p>Students must know the main species that are interested in zootechnical productions; To have knowledge about the obtained productions and the influencing factors; To know the main constitutional and morphoproductive types; To acquire the technology of artificial insemination of females</p>
Transversal competences	<p>Students must correctly identify the species studied; To establish and to appreciate correctly the constitutional and morphoproductive types in the main exploited breeds; To participate in the research activities carried out by the team from the zootechnical discipline.</p>

7. Discipline objectives (based on the cumulated specific competences)

7.1. General objective	Acquiring general notions of taxonomy, general principles and methods of breeding and maintaining the main species of domestic animals and basic knowledge regarding animal production, feed resources and animal nutrition.
7.2. Specific objectives	Students should have knowledge of issues related to the organization of the forage base in farms

8. Content

8.1. COURSE	Teaching methods	Observation
Number of hours -		
Number of hours - 28		
Introductory information	Lecture	1 lecture = 2 hours
The purpose and importance of the discipline. Economic-social importance, evolution and current trends in animal husbandry at national and global level		
Zootechnical systematics	Lecture	1 lecture
The species, the species characters and the animal species of zootechnical interest, the origin and the changes acquired after their domestication		
Breed and subdivisions of the breed		
Adaptation, acclimatization and degeneration of breeds	Lecture	1 lecture
Domestic animal production	Lecture	2 lectures
Animal production and productivity		
General biological traits that influence the production of animals		
Milk production		
Egg production		
Meat and fat production		
Reproduction of domestic animals	Lecture	3 lectures
Morphology of the reproductive tract		
Sexual dimorphism and sexual neutralization		
Sexual activity in females		
Insemination of females		
Fertilization		
Gestation		
Parturition		
Abortion and sterility		
Main breeding indices	Lecture	2 lectures
Raising the animal youth		
Characteristics of growth and development processes		
Factors influencing growth and development		
Leading the growth processes		
Notions of zoo hygiene	Lecture	1 lecture
Microclimate factors: physical, chemical and biological		
Hygiene of shelters, food and water		
Corporal hygiene		
Animal feeding	Lecture	3 lectures
The importance of nutrition and appreciation of nutritional value and quality of feed		
Assessment of the nutritional value of the feeds based on the chemical composition		
Assessment of the nutritional value of the feeds based on digestibility		

Appreciation of the nutritional value of the feeds based on the productive effect Appreciation of the full value of the rations Fodder resources Technology of feed preparation Principles of normative nutrition Standardized feeding technique		
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8.2. PRACTICAL WORKS Number of hours -	Teaching methods	Observation
Number of hours - 28		
Labor protection and P.S.I. in animal husbandry, animal approach and containment	practical works	1 lab work (2 hours/work)
The skeleton as the anatomical basis of the main body regions	practical works	2 lab work
The analytical examination of the exterior and the dynamic examination in animals	practical works	2 lab work
Appreciation of constitutional and morphoproductive types	practical works	1 lab work
Determining the age of the main species of domestic animals	practical works	1 lab work
Colors and color features in pets	practical works	1 lab work
Marking of animals	practical works	1 lab work
The technique of artificial seeding	practical works	1 lab work
Synthetic examination of the exterior	practical works	1 lab work
Feed recognition and appreciation	practical works	1 lab work
Establishing food rules and feed rations	practical works	1 lab work
Verification of knowledge	practical works	1 lab work
<ol style="list-style-type: none"> 1. <i>Compulsory bibliography: Gherman Mariana, 2011, Zootehnie generala, Ed Risoprint Cluj-Napoca</i> 2. <i>Gherman Mariana, 2010, Zzootehnie si nutritie animala, Ed.Rrisoprint Cluj-Napoca</i> 3. <i>Marcu N. si col. (2006) "Zootehnie general asi alimentatie" Ed.Digital Data Cluj-Napoca</i> 4. <i>Marcu N. (2003) "Zootehnie generala" Ed. Risoprint Cluj-Napoca</i> 		
<ol style="list-style-type: none"> 1. <i>Optional bibliography: Creta V. si col. (1983) "Zootehnie generala si tehnologia cresterii animalelor" Ed.Did. si Ped. Bucuresti</i> 2. <i>Morar R. si col. (2000) "Zootehnie generala" Ed Relief</i> 3. <i>Salajan Ghe. si col. (1999) "Practica alimentatiei optimizate si bioconversia furajelor la animalele de ferma" Tipo Agronomia Cluj-Napoca</i> 4. <i>Milas M., D.Drancean (1984) "Furajele-caracteristici generale si utilizare" Ed. Ceres Bucuresti</i> 		
<i>Larbier M. Si B.Leclercq (1994) "Nutritia si alimentatia pasarilor" Ed. Alutus D. Bucuresti</i>		

9. Corroborating the discipline content with the expectations of the epistemic community representatives, of the professional associations and of the relevant employers in the corresponding field

In order to identify ways of modernizing and continuously improving the teaching and the content of the courses, with the most current topics and practical problems, the teachers participate in the annual meeting of the Romanian Society of Zootechnics, collaborate with companies such as Bioterra to explain the ecological technologies and make visits at representative farms.

10. Evaluation

Type of activity	10.1. Evaluation criteria	10.2. Evaluation type	10.3. Percentage of the final grade
10.4. Course	Knowledge of the notions of animal husbandry, of the characteristics and factors of influence of the acclimatization process, of the morphological traits and productions of the farm animals, of the characteristics of the process of reproduction and growth of the youth, of the nutritional value of the forage, of the need for food and feeding techniques. pets	continuous	70%
10.5. Seminar/Laboratory	Recognition of the animal skeleton, body regions, appreciation of the constitutional and morphoproductive types, determination of the age of the animals, color recognition, technique of marking animals, artificial seeding,	practical exam	30%

10.6. Minimum performance standards

Mastery of scientific information transmitted through lectures and practical papers at an acceptable level. Obtaining the passing grade for the ongoing checks is a condition of promotability..

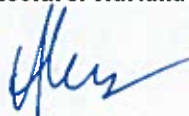
- 1 Cycle of studies - choose one of the three options: Bachelor/Master/Ph.D.
- 2 according to the educational plan
- 3 Discipline status (compulsoriness) - choose one of the options - DI (compulsory discipline) DO (optional discipline) DFac (facultative discipline).
- 4 One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on
04.09.2019

Course coordinator
Phd. Lecturer Adriana Morea

Laboratory work
Phd. Lecturer Adriana Morea

Approved by the
department on
05.09.2019



Head of the Department
Prof.dr. Marcel M. DUDA

