



SUBJECT OUTLINE

1. Information on the programme

1.1. Higher education institution	University of Life Sciences "Ion Ionescu de la Brad" IAȘI
1.2. Faculty	Faculty of Food and Animal Sciences
1.3. Department	Fundamental Sciences in Animal Husbandry
1.4. Field of study	Veterinary Medicine
1.5. Cycle of study ¹	License
1.6. Specialization/ Study programme	Animal raising
1.7. Form of education	Full time

2. Information on the discipline

2.1. Name of the discipline	Animal raising							
2.2. Course coordinator	PhD. Associate Professor Doliș Marius							
2.3. Seminar/ laboratory/ project coordinator	PhD. Associate Professor Doliș Marius							
2.4. Year of study	II	2.5. Semester	3	2.6. Type of evaluation	C	2.7. Discipline status	Content ²	SD
							Compulsoriness ³	CD

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 book, textbook, bibliography and notes					8
3.4.2. Additional documentation in the library, specialized electronic platforms and field					4
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					2
3.4.4. Tutorials					2
3.4.5. Examinations					3
3.4.6. Other activities					-
3.7. Total hours of individual study	19				
3.8. Total hours per semester	75				
3.9. Number of credits ⁴	3				

4. Prerequisites (is applicable)

4.1. curriculum-related	Animal breeding, Animal nutrition, Genetics and Heredopathology, Microbiology
4.2. skills-related	The ability to know the technologies of farm animals raising: cattle, sheep, goats, horses, pigs, birds, fur animals

5. Conditions (if applicable)

5.1. for the lecture	<ul style="list-style-type: none"> • Ensuring all conditions for active and interactive learning, involvement in teaching activities, dialogue; • Classroom/amphitheater, IT instruments that help for better understanding of the presented aspects (PC, video-projector, overhead projector), • Editing the teaching material in a presentation method of a specialized book, PowerPoint, didactic film, drawings, etc. ; • Delay of students in the course and seminar / laboratory will not be tolerated as it proves to be disruptive to the educational process;
5.2. for the seminar/ laboratory/ project	<ul style="list-style-type: none"> • Each student will actively participate in practical applications. • Each student will wear appropriate protective equipment.

6. Specific competences acquired

Professional competences	<p>For the students, Animal production study provides:</p> <ul style="list-style-type: none"> - understand the ethical and legal responsibilities of the veterinarian in relation to animals under his/her care, the environment, clients, policies and society -demonstrate an ability of lifelong learning and a commitment to learning and professional development. This includes recording and reflecting on professional experience and taking measures to improve performance and competence; -studying the factors that have an influence on the animal production from quantitative and qualitative point of view and directing them in order to obtain low-price, good quality and healthy products; -the description of the most efficient animal management technologies to ensure the animal production performance, competitiveness, and safety; -knowing the animal production control methods in order to improve and preserve them, but also for technological and economic purpose; -knowing the animal breeding methods in order to improve and preserve the breeds; -knowing the animal breeds of the most important economical breeds.
Transversal competences	<ul style="list-style-type: none"> -concern for professional development by critical thinking skills training; -demonstrate ability to cope with incomplete information, deal with contingencies, and adapt to change; -work effectively as a member of a multi-disciplinary team in the delivery of services; -involvement on the specific activities of the discipline, such as articles and specialised studies writing; -scientific projects participation, compatible with the requirements of European education integration.

7. Course objectives (based on the list of competences acquired)

7.1. Overall course objective	Acquiring the knowledge necessary to coordinate technological flows in farm breeding units
7.2. Specific objectives	<ul style="list-style-type: none"> • Studying fundamental notions in animal husbandry regarding species, breeds and populations; • presentation of individual characteristics and factors that influence the productive performance of animals; • study of the production and reproduction characteristics of the main animal species bred in order to provide the population with food products of high biological value; • principles of animal breeding

8. Content semester I

Lectures	Teaching methods	Notes
1. Introduction	Lecture; interactive (dialog with students); Power Point presentation	1
2. The notion of species		1
3. Origin and domestication of animals		2
4. The notion of breed and the formation of animal breeds		3
5. Morphological and productive characteristics of domestic animals		4
7. Animal breeding		3
8. Cattle breeding technologies		2
9. Sheep and goat breeding technologies		2
10. Horse breeding technologies		2
11. Pig breeding technologies		2
12. Bird breeding technologies		2
13. Rabbit and fur animals breeding technologies		2
14. Beekeeping and sericulture breeding technologies		2
TOTAL HOURS OF LECTURES		28

8.2. Practical works/Seminars		Nr. of hours
1. Safety standards. Animal approach and containment	Presentation, case study	2
2. Phenotypic assessment of animals; analytical and synthesis examination of the exterior; body measurements.	Individual study; Discussions; Practical application; Visits to: Rediu farm, Faculty farm, and Apiary	6
3. The colors of farm animals		2
4. Marking of domestic animals		2
5. Age assessment in domestic animals		2
6. The main cattle breeds		3

7. The main horse breeds	of the Faculty of Food and Animal Sciences from Iași	3
8. The main sheep and goat breeds		2
9. The main pig breeds		2
10. The main bird breeds		3
12. The main rabbit breeds		1
TOTAL HOURS OF PRACTICAL WORKS/SEMINARS		28

Compulsory bibliography:

1. Electronic course and practical work support – PPT presentation

Optional bibliography:

1. Doliș, M., Angela Gavrița, 2008 -Tehnologia creșterii animalelor, vol.I. Editura „Alfa”, Iași.
2. Gavrița Angela, V. Stan, M. Doliș, 2006 - Creșterea animalelor. Editura „Alfa”, Iași.
3. Lazăr St., 2003 – Morfologia și tehnica creșterii albinelor. Editura „Terra noastră”, Iași.
4. Mărginean Gh., 2012 - Tratat de Hipologie. Editura Academiei Române, București.
5. Păsărin B., 2007 – Tehnologia creșterii suinelor. Editura "Ion Ionescu de la Brad", Iași.
6. Pascal C., 2015 – Tratat de Creșterea ovinelor și caprinelor. Editura "Ion Ionescu de la Brad", Iași.
7. Roman M. și colab., 1999 - Zootehnie specială, vol. I, II și III. Editura "Phare", Cluj-Napoca.
8. Simeanu D., 2016 – Producții animaliere. Editura “Ion Ionescu de la Brad” Iași.
9. Usturoi M.G., 2008 – Creșterea păsărilor. Editura „Ionescu de la Brad”, Iași.
1. Vacaru-Oprîș I. și colab., 2000-2007 - Tratat de Avicultură, vol I, II, III. Editura "Ceres", București.

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

- Training of specialists for livestock farms
- Creating skills and motivations for continuous professional training
- Implementing the foundations of the National Curriculum.

10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3. Percentage of the final grade
10.4. Lecture	Knowledge and proper use of basic concepts, theories and methods Class attendance	Tests with various items	70%
10.5. Seminar/Laboratory	Active involvement in the specific activities of the practical works (assessments, determinations, analyze, etc.)		20%
	Attendance at practical works		10%
10.6. Minimum performance standards			
<ul style="list-style-type: none"> • Poor attendance at practical works (with recovery of missed meetings) and low participation in courses • Minimum knowledge of the subject of the discipline • Reduced capacity to transfer specialized information • The minimum score for the specific indicators of the discipline. 			

¹ Cycle of studies- choose of the three options: Bachelor/Master/Ph.D.

² Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).

³ Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).

⁴ One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Date
14.09. 2021

Course coordinator
PhD. Associate Professor Doliș Marius

Laboratory work/seminar coordinator
PhD. Associate Professor Doliș Marius

Head of the Department
PhD. Associate Professor Simeanu Daniel

17.09.2021

Approved by Faculty Council