

## DISCIPLINE DESCRIPTION

### 1. Information on the study programme

1.1 Academic Institution	<b>University of Oradea</b>
1.2 Faculty	<b>Faculty of Environmental Protection</b>
1.3 Department	<b>Animal Husbandry and Agritourism</b>
1.4 Field of study	<b>Animal Husbandry</b>
1.5 Cycle of study	<b>Bachelor</b>
1.6 Study programme/Qualification	<b>Animal Husbandry/Engineer</b>

### 2. Information on the discipline

2.1 Name of discipline	<b>Eco Farms and Animal Ecological Products</b>						
2.2 Course holder	<b>Lect. PhD. Eng. Codrin Gavra</b>						
2.3 Seminar/Laboratory/Project holder	<b>Lect. PhD. Eng. Codrin Gavra</b>						
2.4 Year of study	<b>IV</b>	2.5 Semester	<b>VIII</b>	2.6 Type of evaluation	<b>Exam</b>	2.7 Regime of discipline	<b>C</b>

(C) Compulsory; (O) Optional; (E) Elective

### 3. Total estimate time (hours per semester of didactic activities)

3.1 Number of hours per week	<b>4</b>	out of which: 3.2 course	<b>2</b>	out of which: 3.3 seminar/laboratory/project	<b>2</b>
3.4 Total hours in the curriculum	<b>40</b>	out of which: 3.5 curs	<b>20</b>	out of which: 3.6 seminar/laboratory/project	<b>20</b>
<b>Time allotment</b>					<b>hours</b>
Study assisted by manual, course support, bibliography and notes					<b>12</b>
Additional documentation in the library/on specialised electronic platforms and in the field					<b>14</b>
Preparation of seminars/laboratories/topics/reports, portfolios and essays					<b>10</b>
Tutorship					<b>2</b>
Examinations					<b>4</b>
Other activities: consultations					<b>2</b>
3.7 Total hours of individual study	<b>44</b>				
3.8 Total hours per semester	<b>84</b>				
3.9 Number of credits	<b>3</b>				

### 4. Prerequisites (where appropriate)

4.1 curriculum	<ul style="list-style-type: none"> <li>Nutrition and Animal Feeding, Swine Growth Technology, Sheep Growing Technology, Production and Conservation of Fodder.</li> </ul>
4.2 competences	<ul style="list-style-type: none"> <li>Knowledge of the fundamental notions of the disciplines mentioned in the curriculum prerequisites;</li> <li>Competences of information and documentation, the application of knowledge, of individual and group activity.</li> </ul>

### 5. Conditions (where appropriate)

5.1. related to course	<ul style="list-style-type: none"> <li>Lecture hall equipped with laptop, projector, whiteboard, plates, which ensures conditions for active and interactive learning;</li> <li>It requires compliance with the rules of ethics and good conduct during the course and respecting the timetable;</li> <li>Active presence and attendance at courses is recommended, absences implicitly affecting the final result. In the case of absences, the responsibility lies with the students to determine the part of the lost subject matter and take measures for recovery.</li> </ul>
5.2. related to seminar/laboratory/ project	<ul style="list-style-type: none"> <li>Laboratory with material endowments specific to the discipline, respectively practical-applicative learning conditions;</li> <li>Students are required to wear white robe at the laboratory works.</li> </ul>

<b>6. Specific competences acquired</b>	
Professional competences	<ul style="list-style-type: none"> <li>• Knowledge of regulations on livestock breeding technologies in organic farms;</li> <li>• Knowledge of standard methods and tools (legislation in force) to verify the compliance of the holding (location conditions, biosecurity and animal welfare rules, environmental protection);</li> <li>• Using biosecurity knowledge of breeding exploitation to prevent animal illness and maintain their health throughout their productive cycle;</li> <li>• Knowledge of how environmental factors influence the state of health and animal production and the relationships between the environment and animals.</li> </ul>
Transversal competences	<ul style="list-style-type: none"> <li>• Use of effective lifelong learning methods and techniques for the purpose of training and continuous professional development;</li> <li>• Responsible and effective implementation of the tasks related to the professions in the field, while respecting the principles of professional ethics;</li> <li>• Identifying the role of a team and assuming the appropriate professional and personal responsibilities;</li> <li>• Cultivating a correct and timely work discipline, responsibility for work, team spirit formation, and awareness of the importance of search and research.</li> </ul>

### 7. Objectives of discipline (coming from the specific competences acquired)

7.1 General objective	<ul style="list-style-type: none"> <li>• Knowing the specifics of animal husbandry in an ecological system;</li> <li>• Presentation of conversion conditions to organic animal breeding, nutrition requirements, housing, animal welfare in the organic farming system;</li> <li>• The relationship between the organic farming system and the quality of certified animal products;</li> </ul>
7.2 Specific objectives	<ul style="list-style-type: none"> <li>• The discipline provides the students with thorough theoretical and practical knowledge of the organic livestock farming system, the relationship between animal husbandry biodiversity and food heritage, the specificity of biodiversity, health status management in the ecological farming system, the characteristics of organic food processing, ecological requirements by species and product line.</li> </ul>

### 8. Content\*

8.1 Course	Methods of teaching	No. of hours/remarks
1. Ecological farm – agro-livestock, economic, ecological and social mixed system.	Lecture combined with debate, video projection system of the didactic material, explanations.	2
2. Sizing and structuring of ecological farms.	Lecture combined with debate, video projection system of the didactic material, explanations.	2
3. Biosecurity of livestock farms.	Lecture combined with debate, video projection system of the didactic material, explanations.	2
4. Regulations on livestock breeding technologies in ecological farms.	Lecture combined with debate, video projection system of the didactic material, explanations.	2
5. Housing and maintenance of livestock in ecological farms.	Lecture combined with debate, video projection system of the didactic material, explanations.	2
6. Animal feeding in the ecological farming system. Principles of ruminants feeding (cattle and sheep). Principles of monogastric feeding (birds and pigs).	Lecture combined with debate, video projection system of the didactic material, explanations..	2

7. Ecological technologies for preserving and storing of fodder.	Lecture combined with debate, video projection system of the didactic material, explanations.	2
8. Prophylaxis and veterinary techniques in ecological livestock farms.	Lecture combined with debate, video projection system of the didactic material, explanations.	2
9. Ecological "niche milk" in Romania and the prospects for export sales.	Lecture combined with debate, video projection system of the didactic material, explanations.	2
10. Regulations on the processing, packaging and marketing of ecological food products.	Lecture combined with debate, video projection system of the didactic material, explanations.	2

**Bibliography:**

1. **Decun M.** (2004) – Ethology, animal welfare and protection. Mirton Publishing House Timișoara.
2. **Man C., Podor C., Ilarie I.** (2002) – Ecology of cattle exploitation. AcademicPres Publishing House Cluj-Napoca.
3. **Man C., Man A.** (2005) – Ecological aviculture. Principles, techniques and regulations. Risoprint Publishing House Cluj-Napoca.
4. **Marcu N., Mierliță D.** (2006) – General animal husbandry and nutrition. Digital Data Publishing House Cluj-Napoca.
5. **Șara A., Mierliță D.** (2003) – Nutrition and alimentation of farm animals. AcademicPres Publishing House Cluj-Napoca.
6. **Rusu T., Albert I., Bodiș A.** (2005) – Methods and techniques of production in organic farming. Risoprint Publishing House Cluj-Napoca.
7. **Zaharia M. S.,** (2010) – Structuring of organic farms. Ion Ionescu de la Brad Publishing House Iași.

8.2 Laboratory	Methods of teaching	No. of hours/remarks
1. Ecological farm – sustainable agricultural ecosystem.	Exposing combined with debate; work at the lab (interactive activity).	4
2. Means of increasing soil fertility and plant protection in the production of organic feed.	Exposing combined with debate; work at the lab (interactive activity).	4
3. Methods of conservation and preserving feed in organic farms.	Exposing combined with debate; work at the lab (interactive activity).	4
4. The morphoproductive properties of the biological material used in the livestock bio production.	Exposing combined with debate; work at the lab (interactive activity).	4
5. Processing of animal agro-food products in ecological conditions.	Exposing combined with debate; work at the lab (interactive activity).	4

**Bibliography:**

1. **Decun M.** (2004) – Ethology, animal welfare and protection. Mirton Publishing House Timișoara.
2. **Man C., Podor C., Ilarie I.** (2002) – Ecology of cattle exploitation. AcademicPres Publishing House Cluj-Napoca.
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\* The content, respectively the number of hours allocated to each course/seminar/laboratory/project will be detailed during the 14 weeks of each semester of the academic year.

\* The books presented in the bibliography are printed in Romanian language. Titles and Publishing Houses have been translated into English language for the discipline description.

**9. Corroboration of discipline content with the expectations of the epistemic community, professional associations and representative employers from the field corresponding to the study programme**

- The curriculum of the discipline is designed to facilitate the formation of professional skills (specific to the animal husbandry profession, provided in the RNCIS documents) and transversal competences;
- A description of how the curriculum of the discipline can respond in terms of occupations on the labour market will be made;
- Discipline exists in the curricula of the universities and profile faculties of Romania, thus being in accordance with the curriculum in other university centres.

**10. Evaluation**

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	- The correctness of assimilated knowledge; - Coherence and logic in the subject's exposure; - Level of assimilation of the discipline specific terms.	Written examination, active participation in courses	70%
10.5 Laboratory	- The ability to apply the acquired notions in practice; - Level of assimilation of laboratory work.	Colloquium, active participation in the laboratory	30%
10.6 Minimum standard of performance			
<ul style="list-style-type: none"> <li>• The student will acquire knowledge specific to the conversion and exploitation of animal breeding farms in order to obtain organic food of animal origin.</li> </ul>			

Date of completion  
19.06.2023

Signature of course holder  
Lecturer Dr. Eng. Codrin Gavra  
([gavracodrin@gmail.com](mailto:gavracodrin@gmail.com))

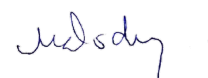


Signature of seminar  
laboratory/project holder  
Lecturer Dr. Eng. Codrin Gavra  
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Date of approval in the department  
21.06.2023

Signature of the Head of Department  
Lecturer Dr. Eng. Monica Dodu  
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