

Livestock Production and Ecological Agriculture

Code: 102667
ECTS Credits: 3

Degree	Type	Year	Semester
2502445 Veterinary Medicine	OT	5	0

Contact

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Teachers

Joaquín Castellà Espuny
Teresa Rigau Mas
Francesc Xavier Such Martí
Maria Dolors Izquierdo Tugas

Prerequisites

Although there are no established official prerequisites, it is recommended that students have passed the subjects of 3rd Animal Production Integrated I, Animal Integrated Production II, Animal Health I and Animal Health II, and 4th Animal Health III and review contents of Bases of the Production and Animal Management

Objectives and Contextualisation

- To know the basics and practice of ecological agricultural and livestock production and its environmental, economic and social importance.
- To train veterinary students on the role they can take in the world of organic production
- to know the legislation and commercialization of organic agricultural products and the certification procedures in Catalonia and in the European Union.
- To foster and develop the capacity for analysis and criticism in relation to the different agrarian production systems.

Competences

- Comunicar la informació obtinguda durant l'exercici professional de manera fluïda, oralment i per escrit, amb altres col·legues, autoritats i la societat en general.
- Demonstrate knowledge and understanding of structural and functional disorders of the animal organism.

- Draft and present satisfactory professional reports, always maintaining the required confidentiality.
- Value and interpret the production and health parameters of one animal group, considering the economic and welfare aspects.

Learning Outcomes

1. Analyse, interpret and evaluate the production and healthcare parameters of a farm or fishery and produce a plan of corrective actions considering the factors of animal welfare, environmental protection and product quality.
2. Apply livestock farming as a tool for the management and conservation of the territory.
3. Apply the basic principles of ecological production.
4. Communicate information obtained during professional exercise in a fluid manner, orally and in writing, with other colleagues, authorities and society in general.
5. Describe the basic principles and problems of livestock health and production in developing countries.
6. Draft and present satisfactory professional reports, always maintaining the required confidentiality.

Content

Block I. FOUNDATIONS OF ECOLOGICAL PRODUCTION

- The evolution of agricultural production: traditional, intensive and ecological production.
- Sustainability in organic production.
- The production of organic food for livestock.

Block II. LEGISLATION AND MARKETING

- The regulations, the certification and the control of the organic production.
- The conversion to organic production.
- The quality of organic products.
- Marketing.
- Associationism and consumer cooperatives.

Block III. PLANT PRODUCTION SYSTEMS

- The organic production of ruminants
- The organic production of pigs
- The organic production of birds
- The organic production of other species.

Block IV. HEALTH IN THE ORGANIC PRODUCTION

- Prevention and sanitary control.
- Recommended veterinary treatments.

Methodology

Theoretical classes: With these classes the student acquires the basic scientific-technical knowledge of the subject that must be completed with the personal study of the topics explained. In these classes, the teacher will do a first exposition of the subject indicating what are the most relevant aspects, and will also guide the student in their personal work.

Seminars: Seminars are sessions with a small number of students with a double mission. On the one hand more specific knowledge of those exposed to the theoretical classes is used. On the other hand, they are a forum to encourage discussion and the exchange of ideas and knowledge. The mission of the seminars is to promote the capacity for analysis and synthesis, critical reasoning and the ability to solve problems. In addition, these sessions allow the teacher to track the student.

Practices: The objective of the practical classes is to complete, apply and reinforce the knowledge acquired in the theoretical classes and seminars. The practical sessions will consist of visits to different ecological farms that will allow the student to know the motivations, methods and problems of the sector.

Case method: The students will carry out a real or bibliographic practical case on any of the problems, limitations or possibilities of improvement of the ecological sector. The function of the practical case is to promote the capacity for analysis, reasoning and expertise in solving problems.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
practical classes	6	0.24	1, 3, 2
seminars	6	0.24	3, 2, 4
theoretical classes	12	0.48	1, 3, 2
Type: Supervised			
practicums case	2	0.08	3, 2, 4
Type: Autonomous			
exam	5	0.2	1, 3, 2, 4, 6
redacción caso práctico	18	0.72	1, 3, 2, 4
study	25	1	3, 2

Assessment

1. Exam of the theoretical contents of the subject (50%).
2. Field trip reports (10%)
3. Oral presentation and defense within 15 minutes of a practical case (self-learning) based on visits to farms. A week after the exhibition, a memory (40%) will be given to the members of the court.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
exam	50%	1	0.04	1, 3, 2
field trip report	10%	0	0	1, 3, 2, 4, 6

Bibliography

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Webs:

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