

Degree	Type	Year
Veterinary Medicine	OB	3

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Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

There are no established official prerequisites, but the student must use the knowledge acquired in the Bases of .

Objectives and Contextualisation

The objectives of Integrated Animal Production 1 are:

- Find out which are the productive factors that most affect the production
- The educational objectives of Integrated Animal Production 1 are:
- Know the key factors that determine, now and in the future, the product

- Know the productive factors that affect the production and quality of meat
- Know the technical reference indexes and identify critical points of the production cycle

Competences

- Analyse, synthesise and resolve problems and make decisions.
- Demonstrate knowledge and understanding of structural and functional disorders of the animal organism.
- Handle the correct protocols and technologies used to modify and optimise different animal production systems.
- Properly evaluate the nutritional status of animals and know how to advise others on breeding and feeding principles.

Learning Outcomes

1. Analyse, synthesise and resolve problems and make decisions.
2. Apply physiological knowledge to production objectives.
3. Describe the concerns of animal waste and its treatment.
4. Evaluate feeding programs: Know how to assess the main methods of animal fodder preparation, conservation and administration.
5. Evaluate the quality of products of animal origin.
6. Evaluate the technical and economic indexes of a farm: recognise problems and offer solutions.
7. Formulate rations for animals in the most conventional situations.
8. Identify and evaluate the factors that affect the production of products of animal origin.
9. Identify the environmental risks associated to the breeding of animal groups.
10. Locate and identify the main producers of foodstuffs of animal origin, as well as their economic dimension.
11. Recognise the basic characteristics of the different stages of livestock production cycles and how they function.
12. Relate agricultural and livestock production with their environmental impacts.
13. Use current feeding systems: Know how to obtain the nutritious value of foodstuffs and calculate animals' nutrition requirements.

Content

THEORY (32 h)

INTRODUCTION OF THE SUBJECT (1h)

Overview of Integrated Animal Production. Objectives and organization.

BLOCK 1: EGG PRODUCTION (3h)

- Egg production management

Planning the productive cycle, feeding and reproduction. Management strategies

BLOCK 2: MEAT PRODUCTION (3pm)

- Management of chicken meat production:

Planning the productive cycle, feeding and reproduction. Management strategies

- Management of pork production:

Planning the production cycle and the feeding of pigs. Management strategies

- Management of veal and steer production:
Planning the production cycle and feeding the calf. Management strategies
- Physiological bases of the production and obtaining the meat.
Chemical composition, structure and quality of the meat. Productive factors
Growth and development. Animal factors affecting growth and development
Transport and sacrifice. The carcass and its performance. Factors affecting

BLOCK 3: MILK PRODUCTION (1pm)

- Physiological bases of the production and obtaining of milk
Composition, characteristics and physical-chemical properties of milk. Systems
Physiological bases of milking. Basic elements of the operation of the milking machine
- Management of cow's milk production
Planning the productive cycle, feeding and reproduction. Management strategies
- Management and milk production of small ruminants
Planning the productive cycle, feeding and reproduction. Management strategies

PRACTICES (25 h)

Milking machine (Farm, 3hs)

Quality of products of animal origin (Laboratory; eggs, 2hs)

Formulation of monogastric feeds (Computer room, 4 hours)

Formulation of ruminant rations (Computer room, 3 hours)

Diagnosis of farm problems. Index analysis (4 Seminars + 1 hours, 9 hours)

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Computer classroom practices	6	0.24	7, 13
Farm practice	3	0.12	8
Lab	2	0.08	5
Seminars	10	0.4	1, 2, 6, 3, 12

Theory lessons	32	1.28	2, 3, 9, 8, 10, 11, 12, 5
Type: Autonomous			
Self-learning	35	1.4	1, 2, 6, 4, 3, 9, 8, 11, 12, 13
Study	60	2.4	2, 6, 4, 3, 7, 9, 8, 10, 11, 12, 13, 5

The center of the learning process is the student's work. The student learns by working.

The mission of the teaching staff is to help students in this task (1) by providing information or showing the source. In line with these ideas, and in accordance with the objectives of the subject,

1. Master classes:

The student acquires the knowledge of the subject by attending the master classes.

The master classes are conceived as a fundamentally one-way method of transmitting knowledge from the teacher to the student.

With the aim of expanding the information, materials will be provided on the Virtual Campus, which will be discussed in the master classes.

In the "laying hens" theory classes, the reverse class is used.

2. Practical training: Several practical training classes will be carried out in different environments: farm (milking and handling of animals), laboratory, etc.

Each of them will be used to raise awareness of a specific concept of Animal Production and allows working in different environments.

3. Seminars: The seminars will allow the presentation and discussion of some aspects not covered in the master classes.

4. Self-learning work: The student must solve the practical cases and rations presented in each of the blocks (see Annex 1).

The proposed teaching methodology may undergo some modification based on the evolution of the subject.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continuous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Exam of practical contents	6%	0.5	0.02	1, 2, 6, 4, 3, 7, 9, 8, 11, 12, 13, 5
Exam of theoretical contents	47%	1.5	0.06	1, 2, 6, 4, 7, 8, 10, 11, 13, 5
Feed formulation	14%	0	0	7, 13
Practices	6%	0	0	1, 2, 6, 4, 3, 9, 12
Self-learning	27%	0	0	1, 2, 6, 4, 3, 9, 8, 11, 12, 13

The subject will be evaluated as follows:

Examination of the theoretical content of the subject (47%; 26% first part
Laying cases (6%)
Milking practices, facilities and environment (6%)
Formulation of rations (14%).
Egg practices (6%).
Productive index work in the classroom or self-learning (21%)

Attendance at the practices and presentation of the reports and self-learning exercises on the scheduled date is
To pass the subject it is required 1) not to miss more than 1 practice with
The student who does not take the theoretical exam (partials and/or reco
Students who opt for the "single assessment" must: 1) Submit all assignr

In this course, the use of Artificial Intelligence (AI) technologies is permitted as an integral part of the developer

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Encyclopedia of meat sciences: www.sciencedirect.com/science/referenceworks/9780124649705

FEDNA: www.fundacionfedna.org

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Animal

British Poultry Science

INRA Productions Animales

Journal of Animal Science

Journal of Dairy Research

Journal of Dairy Science

Meat Science

Mundo Ganadero

Producción Animal

Poultry Science

WEBS

www.agrodigital.com

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Cañeque V., Sañudo C., 2000. Metodología para el estudio de la calidad de la canal y de la carne en rumiantes. Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria. Ministerio de Ciencia y Tecnología. Madrid.

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Animal

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Journal of Dairy Research

Journal of Dairy Science

Meat Science

Mundo Ganadero

Producción Animal

Poultry Science

WEBS

www.agrodigital.com

Software

Spartan Dairy Cattle Formulation (University of Michigan; <https://www.canr.msu.edu/spartandairy/>)

Swine formulation: "WinFeed" (<http://www.winfeed.com/>)

Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.

Name	Group	Language	Semester	Turn
(PAUL) Classroom practices	1	Catalan	first semester	morning-mixed
(PAUL) Classroom practices	2	Catalan	first semester	morning-mixed

(PAUL) Classroom practices	3	Catalan	first semester	morning-mixed
(PLAB) Practical laboratories	1	Catalan	first semester	morning-mixed
(PLAB) Practical laboratories	2	Catalan	first semester	morning-mixed
(PLAB) Practical laboratories	3	Catalan	first semester	morning-mixed
(PLAB) Practical laboratories	4	Catalan	first semester	morning-mixed
(PLAB) Practical laboratories	5	Catalan	first semester	morning-mixed
(PLAB) Practical laboratories	6	Catalan	first semester	morning-mixed
(SEM) Seminars	1	Catalan	first semester	morning-mixed
(SEM) Seminars	2	Catalan	first semester	morning-mixed
(SEM) Seminars	3	Catalan	first semester	morning-mixed
(SEM) Seminars	4	Catalan	first semester	morning-mixed
(SEM) Seminars	5	Catalan	first semester	morning-mixed
(SEM) Seminars	6	Catalan	first semester	morning-mixed
(TE) Theory	1	Catalan/Spanish	first semester	morning-mixed
(TE) Theory	2	Catalan/Spanish	first semester	morning-mixed