

Course Unit	Poultry Science		Field of study	Animal and Agricultural Productions	
Bachelor in	Zootechnical Engineering		School	School of Agriculture	
Academic Year	2022/2023	Year of study	3	Level	1-3
Type	Semestral	Semester	1	ECTS credits	6.0
Code	9129-312-3101-00-22				
Workload (hours)	162	Contact hours	T 30	TP -	PL 30
			TC -	S -	E -
			OT 20	O -	

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Sância Maria Afonso Pires

### Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:  
Characterize poultry industry in the world and a national level and the differences between alternative and conventional poultry production systems and their principal management techniques

### Prerequisites

Before the course unit the learner is expected to be able to:  
Understand concepts from anatomy, physiology, reproduction, nutrition and pathology

### Course contents

General considerations about poultry industry in the world and a national level. Selection and breeding in poultry production; commercial breeds and hybrids used for breeding flocks; production of laying hens; meat production. Anatomy, morphology, physiology, nutrition, housing, pathology, technology of poultry products. Alternative and conventional poultry production systems, differences and their principal management techniques.

### Course contents (extended version)

1. Poultry production generalities. Historical background of poultry science
2. Importance of poultry at national and global level Selection and breeding of poultry
3. Industrial poultry production structures: reproduction, meat and eggs production
4. Methods of selection in poultry production Caracteres to select Type of crossing
5. Breeds of domestic poultry Taxonomy Strains and hybrid lines of commercial chickens
6. Morphological, anatomical and physiological peculiarities Systems and organs of poultry
7. Reproduction Physiology of reproduction Formation, structure and composition of egg
8. Natural and artificial incubation: characteristics Condition of embryo development
9. Eggs management Chicks management: sexing and packaging
10. Poultry food. Nutritional needs according types of fitness
11. Accommodation and equipments Avians management characteristics: reproduction, meat and eggs
12. Pathology of poultry Diseases: symptoms and treatment General prophylaxis
13. Poultry production alternative Animal welfare Alternative poultry products

### Recommended reading

1. BUXADÉ CARBÓ, C. , 1987. La gallina ponedora: sistemas de explotación y técnicas de producción. 1ª Ed. Ediciones Mundi-Prensa, pp 519.
2. BUXADÉ CARBÓ, C. , 1988. El pollo de carne: sistemas de explotación y técnicas de producción. 2ª Ed. Ediciones Mundi-Prensa, pp 365.
3. CASTELLO LLOBET, J. A. , LLEONART ROCA, F. , CAMPO CHAVARI, J. L. e OROZCO PIÑÁN, F. , 1989. Biología de la Gallina. Real Escuela de Avicultura (1ª Ed. ), Barcelona, pp 288
4. LLEONART, F. , ROCA, E. , CALLÍS, M. , GURRI, A. e PONTES, M. , 1991. Higiene y patología aviares. Real Escuela de Avicultura (1ª Ed. ), Barcelona, pp 421
5. PONTES PONTES, M. e CASTELLO LLOBET, J. A. , 1995. Alimentación de las aves. Real Escuela de Avicultura (1ª Ed. ), Barcelona, pp 506.

### Teaching and learning methods

Teaching classes (included practices of laboratory and field work). In no present classes, the students will have to produce a work handing to a teacher over a final report, present and discuss it. The tutorial classes will enable the teacher to monitor and assist students in developing the various activities

### Assessment methods

1. Practices Tests (40%) + Theoretical Tests (60%) - (Regular, Student Worker) (Final)
2. Final Written Exam - 100% - (Student Worker) (Final)
3. Final Written Exam - 100% - (Regular, Student Worker) (Supplementary, Special)

### Language of instruction

1. Portuguese
2. Spanish

### Electronic validation

Sância Maria Afonso Pires	Vasco Augusto Pilão Cadavez	Marieta Amélia Martins Carvalho	Ramiro Corujeira Valentim
20-12-2022	21-12-2022	21-12-2022	22-12-2022