

Course Unit	Animal Husbandry		Field of study	Animal and Agricultural Productions	
Bachelor in	Veterinary Nursing		School	School of Agriculture	
Academic Year	2019/2020	Year of study	1	Level	1-1
Type	Semestral	Semester	1	ECTS credits	6.0
Code	9085-408-1105-00-19				
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) Fernando Jorge Ruivo Sousa

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Know the characteristics of indigenous / exotic breeds and relate them with the various farming systems.
2. Know how to implement best managing techniques for food and reproductive, for the sustainable production, involving the main problems and the economic and social aspects of the country and the world.
3. Be able to design, implement and manage various types of exploitation. Namely producing quality products of animal origin, at reduced costs.
4. Know the specific system of traceability of food products of animal origin and its importance in food safety.
5. Knowing and applying the standards of knowledge on organic creation animal.
6. Know the various methods of recycling animal sewage.

Prerequisites

Before the course unit the learner is expected to be able to:
Biology, Chemistry and Mathematics.

Course contents

The program content includes the study of the following species of greatest economic interest: monogastric (pigs, rabbits and birds); ruminant animals (milk and meat cattle, goats and sheep) e other animal species with economic interest.

Course contents (extended version)

1. Introduction.
2. The main national and international races.
3. Reproduction / Production.
 - Physiology and main ability
 - Main production systems.
4. Animal housing.
 - Different types of animal housing.
 - Temperature, Humidity, Ventilation and illumination.
 - Equipment.
5. Feeding.
 - Anatomy and Physiology.
 - Digestive utilization of food.
 - Feed Requirements.
 - Feeding techniques.
 - Disorders associated with nutrition.
6. Sanitary Prevention.
 - Supervision.
 - Isolation.
 - General standard rules for prophylaxis.
 - General norms of prophylaxis.
7. Farm Managing and planning.
8. Behaviour.
9. Organic production.
10. Industries related to meat, skin and hair.
11. Certification of quality products: PDO / PGI.
12. Industries related to meat, milk and milk products, honey, eggs, skin, fur and feather production.
13. National and UE legislation.

Recommended reading

1. HATCH, K. L. , TOMEY, J. W. , LAWRY, R. C. , 2015. Animal Husbandry. Andersite Press, EUA, 356 pp.
2. KUMAR, M. , HANUMEN, R. , SINGH, S. , 2014. An Analysis of Improved Animal Husbandry Practices. LAP Lambert Academy Publishing, EUA, 168 pp.
3. POND, W. , BAZER, F. , Rollin, B. , 2012. Animal Welfare in Animal Agriculture: Husbandry, Stewardship, and Sustainability in Animal Production. Taylor and Francis Inc, EUA, 334 pp.
4. SLINGH, R. , 2015. Extension and Management Techniques in Veterinary Sciences and Animal Husbandry. New India Publishing Agency, Nova Deli, Índia, 258 pp.
5. WEBSTER, J. , 2012. Animal Husbandry Regained: The Place of Farm Animals in Sustainable Agriculture. Taylor-Francis Ltd, Oxford, RU, 264 pp.

Teaching and learning methods

Theoretical and practical lessons, using various multimedia equipment, laboratory and livestock from ESAB. The study should be continued, using the media available. The guidance track mentorship would allow the teaching and auxiliary students in the development of various activities related to curriculum unit.

Assessment methods

1. Continuous assessment: : - (Regular, Student Worker) (Final)
 - Practical Work - 25% (Practical work and its presentation in class (25%, 1, 5 ECTS). The note must be >7, 5 points.)
 - Intermediate Written Test - 25% (Two written tests theoretical and practical (25%; 1, 5 ECTS). The note must be >7, 5 points.)
 - Final Written Exam - 50% (Two written tests theoretical and practical (50%; 3 ECTS). The note must be >7, 5 points.)
2. Continuous assessment: : - (Student Worker) (Final)
 - Final Written Exam - 100% (Final written exam a restricted part of the issue (100%; 6, 0 ECTS).)

Assessment methods

3. Evaluation of students and workers: - (Student Worker) (Final, Supplementary, Special)
 - Final Written Exam - 100% (Global written exam: theoretically and practical (100%; 6, 0 ECTS).)
4. Resource evaluation: - (Regular, Student Worker) (Final, Supplementary, Special)
 - Final Written Exam - 100% (Global written exam: theoretically and practical (100%; 6, 0 ECTS).)
5. Special: - (Regular, Student Worker) (Supplementary, Special)
 - Final Written Exam - 100% (Global written exam: theoretically and practical (100%; 6, 0 ECTS).)

Language of instruction

Portuguese

Electronic validation

Fernando Jorge Ruivo Sousa	Marieta Amélia Martins Carvalho	Hélder Miranda Pires Quintas	Alfredo Jorge Costa Teixeira
12-11-2019	12-11-2019	12-11-2019	12-11-2019