

Course Unit	Comparative Anatomy and Morphology		Field of study	Veterinary Sciences	
Bachelor in	Zootechnical Engineering		School	School of Agriculture	
Academic Year	2022/2023	Year of study	1	Level	1-1
Type	Semestral	Semester	1	ECTS credits	6.0
Code	9129-312-1101-00-22				
Workload (hours)	162	Contact hours	T 30	TP -	PL 30
			TC -	S 5	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) Marieta Amélia Martins Carvalho

Learning outcomes and competences

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

1. Know the basic concepts of osteology, myology, and esplanology.
2. Know the basic concepts of topographic anatomy of body systems and organs of domestic animals.
3. Understand the concept of breed, and breeds classifications systems.
4. Be able to predict the commercial value of farm animals based on the study of their morphology.
5. To know the systems of animals identification.
6. Be able to recognize the breed of farm animals, as well as their origin, morphological characteristics and aptitudes.

Prerequisites

Before the course unit the learner is expected to be able to:
Not applicable.

Course contents

Study of functions and structures of the body systems and organs of domestic animals. Concept and definition of breed. Breeds classifications. Systematic of Baron. External morphology. Age estimation by teeth analysis. Body measurements. Identification methods. Census and geographical distribution of Portuguese and world breeds.

Course contents (extended version)

1. Guidelines for the curricular unit
2. Skeletal system
3. Digestive system
4. Muscular system
5. Biotypology
6. External anatomy
7. Coats
8. Teeth
9. Animal identification
10. Linear evaluation

Recommended reading

1. Barone, R. , 1996. Anatomie comparée des mammifères domestiques. Vigot Frères, Lyon.
2. Sisson, G. , 2000. Anatomia de los animales domesticos, Ed. Masson.
3. KONIG, H. , E. , LIEBICH, H. G. , 2016. Anatomia dos Animais Domésticos – Texto e Atlas Colorido – 6ª Edição. Editora Artmed.
4. SERRA, J. L. , 1979. Anatomia, Fisiologia e Exterior dos Animais Domésticos. Coleção Agros nº 7. Livraria Popular de Francisco Franco. Porto.
5. Baljit Singh, 2017. Dyce, Sack, and Wensing's Textbook of Veterinary Anatomy. 5th Edition. Faculty of Veterinary Medicine at University of Calgary.

Teaching and learning methods

Teaching of this curricular unit is based in theoretical and practical classes for themes exposition. The non presential component implies the preparation of a revision paper about a topic of this curricular unit. Resources: books, papers, pictures, videos, artificial models, and animals from experimental units of ESAB.

Assessment methods

1. Continuous evaluation - (Regular, Student Worker) (Final, Supplementary)
 - Practical Work - 50% (Practical work (25%; 3 ECTS). The note must be >9, 5 points.)
 - Intermediate Written Test - 25% (Intermediate Written Test theory / practical (25%; 1, 5 ECTS). The note must be >9, 5 points.)
 - Final Written Exam - 25% (A written theory / practical (25%; 1, 5 ECTS). The note must be >9, 5 points.)
2. Special evaluation: - (Regular, Student Worker) (Final, Supplementary, Special)
 - Final Written Exam - 100% (Global written exam: theoretically and practical (100%; 6, 0 ECTS).)

Language of instruction

1. Portuguese
2. English
3. Spanish

Electronic validation

Marieta Amélia Martins Carvalho	Álvaro Luís Pegado Lemos Mendonça	Marieta Amélia Martins Carvalho	Ramiro Corujeira Valentim
14-12-2022	22-12-2022	22-12-2022	31-12-2022