

Course Unit	Ecology and Biology of Exotic and Wild Fauna	Field of study	Biology and Biochemistry
Bachelor in	Veterinary Nursing	School	School of Agriculture
Academic Year	2019/2020	Year of study	2
Type	Semestral	Semester	1
Level	1-2	ECTS credits	6.0
Code	9085-408-2102-00-19		
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) José Paulo Mendes Guerra Marques Cortez

Learning outcomes and competences

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

1. - Identify some species of Portuguese and European fauna
2. - Knowledge on ecology and ethology of general wildlife, endangered and exotic species
3. - To understand national and international laws and regulations for commerce of fauna and for protected fauna
4. - To understand importance of recover plans of threatened populations and re-introduction programs
5. - To understand importance of species (re)introduction programs
6. --To acquire competences in veterinary nursing care in exotic and wild animals.

Prerequisites

Before the course unit the learner is expected to be able to:
Biology

Course contents

Biology of native fauna in Portugal and Europe. Endangered, introduced and exotic fauna. Ecology and behaviour of animals in stress and non-stress conditions. Capture and hand-rearing techniques for wildlife. Restoration and release of endangered species

Course contents (extended version)

1. Characteristics of most relevant animal species of Portugal
 - European and portuguese fauna: birds, mammals reptiles, amphibian and fish species
 - Introduced and exotic species commonly commercialized
2. Introduction to behaviour and ecology of wild animals
 - Movements in animals: migration and dispersal
 - Animal behaviour
 - Life and dead in wildlife species
3. Capture techniques, wild animal handling and feeding
 - Handling and reactions to humans
 - Techniques in rearing captive wild animals
4. Strategies for population recovering
 - Reproduction programs for captive animals
 - Case studies: zoos, oceanaria and recovering centers
5. Ecological considerations and laws in animal reintroductions
 - Human and ecological constraints to release recovered wild animals
6. Veterinary Nursing of Exotic Pets
 - Small Mammals
 - Avian species

Recommended reading

1. Ballard, B. , Cheek, R. , 2010. Exotic Animal Medicine for the Veterinary Technician. 2ª edição, Iowa State University Press, EUA, 520 pp.
2. Ferrand de Almeida N. , Ferrand de Almeida P. , Gonçalves H. , Sequeira F. , Teixeira J. e Ferrand de Almeida, F. 2001. Guia Fapas Anfíbios e Répteis de Portugal.
3. MacDonald, D. & P. Barret, 1999. Mamíferos de Portugal e Europa. Guias Fapas. Porto
4. Girling, S. , 2013. Veterinary Nursing of Exotic Pets. 2ª edição, John Wiley and Sons Ltd, NY, EUA, 376 pp.
5. Svensson L; Mullarney, K. and Zetterström, D. 2012. Guia de aves: o guia de campo mais completo das aves de Portugal e da Europa. 2ª ed. Assírio & Alvim

Teaching and learning methods

Lecture sessions with multimedia support. Practical classes on field and lab. Work group based on bibliographic resources

Assessment methods

1. Alternative 1 - (Regular, Student Worker) (Final)
 - Final Written Exam - 50%
 - Work Discussion - 50% (Includes short tests)
2. Alternative 2 - (Regular, Student Worker) (Supplementary)
3. Alternative 3 - (Student Worker) (Special)

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

José Paulo Mendes Guerra Marques Cortez	Amílcar António Teiga Teixeira	Hélder Miranda Pires Quintas	Amílcar Manuel Lopes António
18-11-2019	18-11-2019	18-11-2019	18-11-2019