

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	Level	1-2
Type	Semestral	Semester	1	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