

Course Unit	Natural Resources Conservation			Field of study	Environmental Sciences		
Bachelor in	Environmental Engineering			School	School of Agriculture		
Academic Year	2022/2023	Year of study	3	Level	1-3	ECTS credits	6.0
Туре	Semestral	Semester	1	Code	9099-309-3101-00-22		
Workload (hours)	162	Contact hours	T 30 TP	- PL 30 T	c - s -	E - OT	20 0 -
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) João Carlos Martins de Azevedo

#### Learning outcomes and competences

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

  1. It is expected that the students acquire conceptual, ethical, scientific and thecnical foundations in biodiversity and natural resources conservation. Therefore the students should:

- 2. Become aware of the importance of the maintenance of diversity in populations, communities, ecosystems and landscapes,
  3. The students should also be able to interpret relevant case studies as well as to evaluate them critically.
  4. Finally, the students should be able to plan management practices towards conservation of species, communities, ecosystems and landscapes.

### Prerequisites

Before the course unit the learner is expected to be able to: Basic knowledge in biology and ecology

### Course contents

Biodiversity and ethics Processes of biodiversity creation and destruction Conservation paradigms Principles, strategies and practices of biodiversity conservation Nature conservation in Portugal Legal instruments in conservation

#### Course contents (extended version)

- 1. 1 Introduction

  - environment, ecology, biodiversity, value of the environment and of resources; natural resources and biodiversity conservation; sustainability and other fundamental concepts
- 2. 2 Nature conservation:
- definitions, history, participants and roles

# Recommended reading

- Groom, M. J. Meffe, G & Defencies of Conservation Biology, 3rd Edition Sinaurer
   Hunter, M. L. Jr. 1996. Fundamentals of Conservation Biology. Blackwell Science, Cambridge.
   Lindenmayer, D. B. & Defencies of Conservation Biology. Sinauer Associates, Sunderland.
   Eranklin. 2002. Conserving forest biodiversity: a comprehensive multiscaled approach. Island Press, Washington, DC
   Primack, R. B. 2001. Essentials of Conservation Biology. Sinauer Associates, Sunderland.

## Teaching and learning methods

Conventional lectures with oral presentation of subjects. Labs based upon development of practical exercises in several fields and presentation and discussion of selected papers and study cases.

# Assessment methods

- 1. Alternative 1 (Regular, Student Worker) (Final)
- Practical Work 50%
   Final Written Exam 50% (Minimum grade of 8 marks required in the final exam)
   Alternative 2 (Student Worker) (Supplementary, Special)

## Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

João Carlos Martins de Azevedo Amilcar António Teiga Teixeira Artur Jorge de Jesus Gonçalves Maria Sameiro Ferreira Patrício

05-12-2022 08-12-2022 19-12-2022