

Course Unit	Education for Sustainable Development 2		Field of study	-	
Bachelor in	Environmental Education		School	School of Education	
Academic Year	2023/2024	Year of study	2	Level	1-2
Type	Semestral	Semester	2	ECTS credits	6.0
			Code	9082-768-2202-00-23	
Workload (hours)	162	Contact hours	T	-	TP
			45	PL	18
			TC	-	S
			-	E	-
			OT	9	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) Maria Conceição Costa Martins, Paulo Miguel Mafrá Gonçalves

### Learning outcomes and competences

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

1. Recognize the natural, social and economic relevance of natural heritage.
2. Comment critically the degradation of environment quality.
3. Propose measures for prevention or mitigation in cases of environmental degradation.
4. Plan, implement and evaluate actions to information, awareness and public education on prevention of degradation and improvement of environmental quality.
5. Discuss the legal instruments on access to information and public participation.
6. Recognize the importance of citizen involvement and action to build environmental sustainability.

### Prerequisites

Before the course unit the learner is expected to be able to:  
Do not have prerequisites.

### Course contents

1. Natural resources as an ecological support for life; 2. Implications and challenges of urban growth; 3. Challenges to development in the rural world; 4. Legal instruments for environmental protection; 5. Citizen involvement and action.

### Course contents (extended version)

1. Valuing the natural heritage
  - Natural resources as an ecological support of life
  - The interdependence between environment and development
  - Indicators of quality and environmental sustainability
2. Implications and challenges of urban growth
  - Changes to soil, water and atmosphere
  - Impacts on biodiversity and ecosystems
  - Creation of ecological corridors and green structures
  - Urban planning and sustainable mobility
  - Good governance and participation practices
  - Cities as spaces for innovation and education
3. Development challenges in the rural world
  - Impacts of monocultures on natural and social systems
  - Impacts of pesticides on the environment and health
  - Biodiversity restoration and conservation measures
  - Good local development practices
4. Legal instruments for environmental protection
  - International conventions
  - Nature conservation strategies
  - Assessment of environmental impacts
  - Territorial planning
5. Citizen involvement and action
  - Access to environmental information
  - Education for Global Citizenship
  - Citizen science

### Recommended reading

1. IPBES (2019). Global assessment report of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. <https://doi.org/10.5281/zenodo.3831673>
2. Secretariat of the Convention on Biological Diversity (2012). Cities and biodiversity outlook. <http://www.cbd.int/en/subnational/partners-and-initiatives/cbo>
3. UNESCO (2016). Educação para a cidadania global: tópicos e objetivos de aprendizagem. <https://unesdoc.unesco.org/ark:/48223/pf0000244826>
4. Vilela, E. F., Callegaro, G. M., & Fernandes, G. W. (Org.) (2019). Biomass e agricultura: oportunidades e desafios. [www.abc.org.br/wp-content/uploads/2019/11/Livro-Biomass-e-Agricultura-Site.pdf](http://www.abc.org.br/wp-content/uploads/2019/11/Livro-Biomass-e-Agricultura-Site.pdf)
5. World Economic Forum (2020). The future of nature and business. New nature economy report II. [https://www3.weforum.org/docs/WEF\\_The\\_Future\\_Of\\_Nature\\_And\\_Business\\_2020.pdf](https://www3.weforum.org/docs/WEF_The_Future_Of_Nature_And_Business_2020.pdf)

### Teaching and learning methods

In the theoretical-practical classes, contents will be approached starting from everyday situations, through research on environmental themes, through oral exposition, use of audiovisuals and discussion and debate. The work of the groups will be presented to the class and discussed in a large group. Practical work includes field activities and research carried out by students.

### Assessment methods

1. Continuous assessment - (Regular, Student Worker) (Final)
  - Presentations - 30% (Presentation of practical work done in groups)
  - Practical Work - 15% (Realização de um trabalho prático em grupo, com o respetivo relatório)
  - Intermediate Written Test - 55% (Evaluation through a written test)
2. Exam - (Regular, Student Worker) (Supplementary, Special)
  - Final Written Exam - 55%
  - Presentations - 45% (Classification obtained in the practical component during class)

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation			
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14-02-2024	14-02-2024	14-02-2024	18-02-2024

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