

Course Unit	Observing and Representing Local Environment	Field of study	-
Bachelor in	Environmental Education	School	School of Education
Academic Year	2023/2024	Year of study	2
Type	Semestral	Semester	1
Level	1-2	ECTS credits	6.0
Code	9082-768-2104-00-23		
Workload (hours)	162	Contact hours	T - TP 54 PL - TC - S - E - OT 18 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

Learning outcomes and competences

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

1. Observe the territory
2. Know the different forms of representation of the local environment
3. Analyze the marine environment in terms of its resources, forms of protection and management
4. Understand the dynamics of water in the atmosphere and its relationship with climate
5. Understand the importance of water as a support for human activity

Prerequisites

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

Course contents

- Earth observation and representation - Oceans: problems and challenges - Dynamics of water in the atmosphere and climate

Course contents (extended version)

1. Observation and representation of the Earth
 - General notions of cartography
 - Maps
 - Relief representation
 - Geographic coordinates: orientation
 - Geographic location of the local in region and in the World
2. Oceans: problems and challenges
 - Seas and Oceans
 - Marine environments and ecosystem services
 - Living, non-living resources and biotechnological potential
 - Challenges for marine conservation
 - Ocean protection and management
3. Dynamics of water in the atmosphere and climate
 - Large scale weather patterns
 - Biomes
 - Aquatic ecosystems
 - Changes in water distribution patterns
 - Scarcity and rational use

Recommended reading

1. Gerling, C., Ranieri, C., Fernandes, L., Gouveia, M. T. J., & Rocha, V. (Orgs.) (2016). Manual de Ecossistemas Marinhos e Costeiros para Educadores. Editora Comunicar. <https://shre.ink/QOoK>
2. Ministério do Ambiente, do Ordenamento do Território e do Desenvolvimento Regional (2008). Articulação entre a Gestão da Água e o Ordenamento do Território. MAOTDR
3. Pereira, A. R. (2002). Geografia Física e Ambiente. Universidade Aberta.
4. Piroli, E. L. (2022). Água e bacias hidrográficas: planejamento, gestão e manejo para enfrentamento das crises hídricas. Editora UNESP. <https://books.scielo.org/id/wphz3>
5. Silva, M. V. C., & Brito, E. G. (2019). Cartografia. UECE Editora. <http://educapes.capes.gov.br/handle/capes/55259>

Teaching and learning methods

- Discussion - Debate - Critical reflections - Group work - Solving problems - Study visits

Assessment methods

1. Continuous evaluation - (Regular, Student Worker) (Final)
 - Intermediate Written Test - 70% (Writing test)
 - Practical Work - 30% (Group work)
2. Appeal evaluation moment - (Regular, Student Worker) (Supplementary, Special)
 - Final Written Exam - 100% (Written test to evaluate the contents taught in the curricular unit.)

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

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20-02-2024	22-02-2024	23-02-2024	25-02-2024