

Course Unit	Observing and Representing Local Environment		Field of study	Natural Sciences	
Bachelor in	Environmental Education		School	School of Education	
Academic Year	2021/2022	Year of study	2	Level	1-2
Type	Semestral	Semester	2	ECTS credits	6.0
			Code	9082-620-2204-00-21	
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) **Pedro Alexandre Oliveira Couceiro**

### 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. Know the different sources, methods of analysis and graphical representation
4. Analyze the population as a factor of unity and diversity of local
5. Understand the importance of air and water to life and the human potential
6. Explain the importance of resources in support of human activity

### Prerequisites

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

### Course contents

- Observation and representation of the Earth - Population: distribution, evolution, characterization and demographic problems - Water and its importance - Sea: problems and challenges - Portugal in the XXI century

### Course contents (extended version)

1. Observation and representation of the Earth
  - General notions of cartography
  - Maps
  - Representation of relief
  - Geographic coordinates: orientation
  - Geographic location of the local in region and in the World
2. Population: distribution, evolution, characterization and population problems
  - Urban attractionn and rural exodus
  - Two centuries of emigration
  - Aging, expertise and new family structures in XXI century
3. Water and its importance
  - Dynamics of the atmosphere and clime
  - Water availability and problems of distribution and utilization
4. Sea: problems and challenges
  - Problems in the management of the sea
  - Maximize the use of maritime space
5. Portugal in the XXI century
  - Territorial and politics development
  - Mobility and transport infrastructure

### Recommended reading

1. Bailey, A. (2005). Making Population Geography. Arnold Publications.
2. Instituto Geográfico do Exército (2008). Manual leitura de cartas. Instituto Geográfico do Exército.
3. Medeiros, C. A. (Direcção) (2005). Geografia de Portugal - Actividades Económicas e Espaço Geográfico (Vol. 3). Printer Portuguesa Indústria Gráfica LDª - Círculo de Leitores e Autores.
4. Ministério do Ambiente et al. (2008). Articulação entre a Gestão da Água e o Ordenamento do Território. Ministério do Ambiente, do Ordenamento do Território e do Desenvolvimento Regional.
5. Pereira, A. R. (2002). Geografia Física e Ambiente. Universidade Aberta.

### Teaching and learning methods

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

### Assessment methods

1. Continuous evaluation - (Regular, Student Worker) (Final)
  - Intermediate Written Test - 70% (Writting teste)
  - Practical Work - 30% (Group work)
2. Appeal evaluation moment - (Regular, Student Worker) (Supplementary, Special)
  - Final Written Exam - 100%

### Language of instruction

Portuguese

## Electronic validation

Pedro Alexandre Oliveira Couceiro	Orlando Miguel Pina Gonçalves Martins Gama	Paulo Miguel Mafra Gonçalves	Carlos Manuel Costa Teixeira
25-10-2021	30-10-2021	03-11-2021	25-11-2021