INSTITUTO POLITÉCNICO DE BRAGANÇA

Course Unit	Option 2 - Ecology and Society			Field of study	Environmental Sciences/Sociology
Bachelor in	Portuguese Language and Portuguese Speaking Countries - Portuguese as Mother Tongue			School	School of Education
Academic Year	2021/2022	Year of study	3	Level	1-3
ECTS credits	5.0				
Type	Semestral	Semester	1	Code	9992-544-3102-02-21

Workload (hours)	135	Contact hours	T	-	TP	45	PL	-	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 José Afonso Magalhães Rodrigues

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:
1. Understand the role of man as modifier of ecosystems.
2. Understand the implications of plundering natural resources.
3. Understand how it works the transfer of matter and energy in ecosystems.
4. Understand the importance of individual behavior on environmental issues.
5. Collect, select, understand and prepare relevant information for the analysis and interpretation of situations and take position on environmental issues.
6. Design and streamline projects that promote environmental sustainability.

Prerequisites

Before the course unit the learner is expected to be able to:
Without prerequisites

Course contents

1. Environmental issues in the contemporary world: Environment and Development; 2. Operation and diversity of ecosystems; 3. Preventive measures for the major global environmental problems; 4. The role of government and public participation in environmental matters.

Course contents (extended version)

1. Environmental issues in the contemporary world: Environment and Development
   - The environment: systemic approach
   - The value of natural resources in support of human life
   - Sustainable Development: natural, economic and social
2. Operation and diversity of ecosystems
   - Major ecosystems in the world
   - Goods and services provided by ecosystems
   - Ecological networks and protected areas
3. Preventive measures for the major global environmental problems
   - Climate change and carbon market
   - Illegal trade of species and loss of biodiversity
   - Sustainable Consumption
4. The role of government and public participation in environmental matters
   - The role of government
   - Civil Society Organizations
   - International Organizations Environment and Development

Recommended reading

1. CPLP (2014). Declaração de Maputo. IV reunião de ministros do ambiente da CPLP. Comunidade dos Países de Língua Portuguesa.
2. PNUMA (2011). Caminhos para o desenvolvimento sustentável e a erradicação da pobreza – Síntese para tomadores de decisão. Disponível em www. unep. org/greeneconomy.
3. Schmidt, L. , Nave, J. G. , & Guerra, J. (2010). A educação ambiental: Balanço e perspectivas para uma agenda mais sustentável. Imprensa de Ciências Sociais.
4. Ramos, T. B. (2007). Sistema de indicadores de desenvolvimento sustentável – SIDS PORTUGAL. Agência Portuguesa do Ambiente.
5. UNESCO (2015). Global citizenship education: Topics and learning objectives. UNESCO.

Teaching and learning methods

For each subject the methodology is as follows: presentation of questions that lead students to make a preliminary research on each subject; presentation of the most relevant facts; identification of a working group to develop further research; plenary discussion, fostering critical thinking.

Assessment methods

1. Continuous evaluation - (Regular, Student Worker) (Final)
   - Intermediate Written Test - 60%
   - Practical Work - 40%
2. Examination evaluation - (Regular, Student Worker) (Supplementary, Special)
   - Final Written Exam - 100%

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

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03-11-2021	03-11-2021	03-11-2021	24-11-2021

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