Course Unit	Economics of the Environment and Natural Resources		**Field of study**	Mathematics and Statistics	
Master in	Agroecology		**School**	School of Agriculture	
Academic Year	2023/2024	**Year of study**	1	**Level**	2-1	**ECTS credits**	6.0
Type	Semestral	**Semester**	2	**Code**	6348-747-1101-00-23	

Workload (hours)	162	**Contact hours**	T	30	TP	-	PL	30	TC	-	S	-	E	-	OT	4	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)	Sílvia Freitas Moreira Nobre

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:
1. Understand the scope of intervention of the Economy of the environment and natural resources
2. Understand the concepts of Circular Economy and Sustained Economy and know how to apply them to specific cases of production and consumption.
3. Know the different types of market failures, be able to identify positive and negative externalities in the context of a market economy, and evaluate possible intervention policies.
4. Know the main policies for regulation and protection of environmental values and be able to evaluate their effectiveness.

Prerequisites

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

Course contents

Circular Economy. Environmental functions; Provision of resources; Waste assimilation; Direct enjoyment. Sustained Economy. Optimum level of contamination. Optimal contamination across the market; Coase theorem. Externalities, Market Failures and Intervention Policies. Environmental Policies

Course contents (extended version)

1. 1 Circular Economy;
    - Environment and Economy Interaction;
    - Environmental functions; Provision of resources; Waste assimilation; Direct enjoyment.
2. Sustained Economy
    - Sustainability criteria regarding the use of resources and the rate of deposition of waste
3. Optimum level of contamination.
    - . Optimal contamination across the market.
    - Coase theorem.
4. Externalities, Market Failures and Intervention Policies
    - Environmental Policies
    - Environmental policies in European Union: 6th, 7th & 8th Framework environmental Programs.

Recommended reading

1. PEARCE, D. W. and TURNER, R K. Economics of Natural Resources and the Environment. Harvester Wheatsheaf, New York, 1990.
2. COMUNIDADES EUROPEIAS. Ambiente 2010: O Nosso Futuro, a Nossa Escolha. 6º Programa Comunitário em Matéria De Ambiente 2001 – 2010. Luxemburgo, 2001.
3. SAMUELSON, P. , "Economia", 14ª Edição, McGraw Hill, S. Paulo, 1993
4. COMUNIDADES EUROPEIAS, 7ºPrograma Comunitário em Matéria de Ambiente
5. COMUNIDADES EUROPEIAS, 8ºPrograma Comunitário em Matéria de Ambiente

Teaching and learning methods

Theoretical classroom classes are mainly based on the presentation of the themes included in the program. In practical classes, students will develop practical research and reflection on content taught in theoretical classes, which will later be presented and discussed in the classroom.

Assessment methods

1. Alternative 1 - (Regular, Student Worker) (Final, Supplementary, Special)
    - Intermediate Written Test - 50%
    - Practical Work - 50%
2. Alternative 2 - (Regular, Student Worker) (Final, Supplementary, Special)
    - Final Written Exam - 50%
    - Practical Work - 50%

Language of instruction

Portuguese

Electronic validation

Sílvia Freitas Moreira Nobre	Maria Isabel Barreiro Ribeiro	Manuel Ângelo Rosa Rodrigues	Paula Sofia Alves do Cabo
18-01-2024	18-01-2024	18-01-2024	23-01-2024

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