

Course Unit	Environmental and Natural Resource Economics			Field of study	Entrepreneurship and Social Sciences	
Bachelor in	Environmental Engineering			School	School of Agriculture	
Academic Year	2022/2023	Year of study	3	Level	1-3	ECTS credits 6.0
Туре	Semestral	Semester	1	Code	9099-309-3103-00-22	
Workload (hours)	162	Contact hours		- PL 30 T		E - OT 30 O - - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

## Name(s) of lecturer(s)

Sílvia Freitas Moreira Nobre

Learning outcomes and	d competences
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- At the end of the course unit the learner is expected to be able to: 1. Understand the capacity of intervention of Environmental and Natural Resources Economics. 2. Know the different types of market failures and possible policy interventions. 3. Evaluate positive and negative externalities in the context of the market economy. 4. Identify inefficiencies caused by externalities and possible policy interventions. 5. Know the economy of the main natural resources (renewable, non-renewable, recyclable, non-recyclable. 6. Know the main methods of environmental valuation, its application context and the cost-benefit analysis methodology.
- Understand Sustainability Economics.
  Understand policies to promote sustainable production and . consumption.

# Prerequisites

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

#### Course contents

Environmental Valorization. Environmental Economics. Environmental Policies

### Course contents (extended version)

## 1. ECONOMY AND ENVIRONMENT

- ECONOMY AND ENVIRONMENT
  Environmental issues and Economical Development
  Planning and Use of the Natural Resources
  Economical theory and the environmental issues
  Interaction of the environment in the Economical system
  ECONOMICAL ANALYSIS OF THE CONTAMINATION
  Economical efficiency and Environmental Externalities
  The optimal level of Contamination
  Obtaining of the optimal Contamination
  ECONOMY OF THE NATURAL RESOURCES
  Basic concepts
  Natural resources non renewal
- - Natural resources non renewal
    Renewable Natural resources
- Fishing and Forest's Administration
  Extinction of the Species
  ENVIRONMENTAL POLITICS, ECONOMY AND SUSTANABLE DEVELOPMENT
  Concepts: Environment Economy and Sociology; Environment Law; Environmental Policies
  The Environmental Politics in the European Union

#### 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, SAMUELSON, P. , "Economia", 14ª Edição, McGraw Hill, S. Paulo, 1993
   COMUNIDADES EUROPEIAS, 7ºPrograma Comunitário em Matéria de Ambiente
   Programa de Desenvolvimento Rural do Continente para 2014-2020

# Teaching and learning methods

## Group work. Debate. Exercises solving

Assessment methods

Alternative 1 - (Regular, Student Worker) (Final, Supplementary, Special)
 Final Written Exam - 67%
 Practical Work - 33%

## Language of instruction

#### Portuguese

Electronic validation			
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19-12-2022	19-12-2022	20-12-2022	31-12-2022

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