POLI ESCOLA SUPERIOR TECNOLOGIA GESTÃO TÉCNICO GUARDA	**SUBJECT DESCRIPTION**	**MODELO** PED.013.03

Course	**Energy and Environment**					
Subject	**Environmental Impact Assessment**					
Academic year	2023/2024	*Curricular year*	3rd	*Study period*	2nd semester	
Type of subject	Compulsory	*Student workload (H)*	Total: 112	Contact: 60	*ECTS*	4.0
Professor(s)	Pedro Miguel dos Santos Melo Rodrigues					
☒ *Area/Group Coordinator* ☐ *Head of Department* *(select)*	Rui António Pitarma S. Cunha Ferreira					

PLANNED SUBJECT DESCRIPTION

1. LEARNING OBJECTIVES

Transmit and provide students with knowledge in the field of Environmental Impact Assessment (EIA) in accordance with the legal requirements of the sector. Understand and know the organizational structure of the EIA and Environmental Impact Study (EIS) processes. At the end of the semester, students must understand and interconnect the syllabus of other curricular units in the development of EIS, in particular with regard to the assessment of environmental impacts in the energy sector.

2. PROGRAMME

1 Introduction and principles

1.1 Introduction

1.2 Concept of environmental impact assessment

1.3 The objectives of the environmental impact assessment

1.4 Projects, environment and impacts

1.5 Historical evolution of the EIA process;

2 The EIA process in Portugal

2.1 Introduction

2.2 Management of the EIA and EIA process

2.3 Project selection

2.4 The objectives of scoping

2.5 The preparation of EIA and technical assessment

2.6 Environmental Impact Statement and Post-Assessment

3 Prediction, evaluation and mitigation of impacts

3.1 Introduction

3.2 Forecast of environmental impacts

3.3 Assessment and significance of environmental impacts

3.4 Mitigation and compensation of environmental impacts

4 Public participation in the EIA

4.1 Introduction

4.2 Consultation and public participation

4.3 Presentation of the EIA

4.4 Review of the EIA

5 Audits and Monitoring

5.1 Introduction

5.2 The importance of audits and monitoring in the EIA process

5.3 International Auditing Practices

5.4 International monitoring practices

6 Analysis of practical cases of public consultations in progress or already carried out or in the post-evaluation phase, such as, for example, photovoltaic plants, wind farms, hydroelectric plants, combustion plants.

3. COHERENCE BETWEEN PROGRAMME AND OBJECTIVES

The syllabus is based on the legal framework from the basic environmental law and on all legislation that supports the EIA procedure. Based on the syllabus that aim at the EIA procedure and its practical character and simulated practice, with the support of regular presentation of real practical EIA cases, the full objectives of the curricular unit are achieved.

4. MAIN BIBLIOGRAPHY

Glasson, J., Therivel, R.; Introduction to Environmental Impact Assessment 5th edition, Routledge, London, 2019

Ofili, M.; Environmental Impact and Life Cycle Assessment of Renewable and Non Renewable Energy, eBook Kindle, 2022

Rodrigues, P.M.S.M.; Avaliação de Impacte Ambiental - Guia do Decreto-Lei nº 151-B/2013, Instituto Politécnico da Guarda, 2016

Partidário, M. R., Jesus, J.; Fundamentos de Avaliação de Impacte Ambiental, Universidade Aberta., Universidade Aberta, 2003

Raymond, K., Coates, A.; Guidance on EIA - EIS Review, Office for Official Publications, Luxembourg, 2001

Raymond, K., Coates, A.; Guidance on EIA - Scoping, Office for Official Publications, Luxembourg, 2001

Raymond, K., Coates, A.; Guidance on EIA - Screening, Office for Official Publications, Luxembourg, 2001

Agência Portuguesa do Ambiente. Sistema de Informação sobre Avaliação de Impacte Ambiental, em https://siaia.apambiente.pt

5. TEACHING METHODOLOGIES (INCLUDING EVALUATION)

Thematic debate sessions are held so that all students feel their participative role. In this way, teaching methods based on the expository and narrative method are used. The learning method based on the Case Study is also regularly used. The evaluation of the curricular unit will take place through the completion of assignments (50%) and the exam or appeal exam (50%). The evaluation moments will be carried out on a date to be set by the school management. The student obtains approval for the curricular unit if the final grade resulting from the weighting of the assignments and the exam or appeal exam is equal to or

greater than 10 points. Students who do not perform the work will have to obtain a grade equal to or greater than 10 in the exam or in the appeal exam.

6. COHERENCE BETWEEN TEACHING METHODOLOGIES AND OBJECTIVES

The expository methodology associated with the resolution of theoretical-practical exercises and the carrying out of laboratory classes, will allow the student to:

1. Know the procedures and stages of the environmental impact assessment process;

2. Participate and/or coordinate an environmental impact study;

3. Organize the public participation process in the environmental impact assessment process;

4. Develop communication skills, critical thinking and autonomous learning;

5. Develop the ability to work collaboratively.

7. ATTENDANCE

This course has only optional attendance, therefore, attendance at classes is optional.

8. CONTACTS AND OFFICE HOURS

Office: Laboratory (Labmia); Email: prodrigues@ipg.pt; Opening hours: Monday (11:30 - 12:30); Thursday (11:30 - 12:30); Thursday (14:00 - 15:30)

DATE

29 February 2024

SIGNATURES

Professor

(signature)

Area/Group Coordinator

(signature)