SUBJECT TEACHING GUIDE

G2033 - Cross-Curricular Values and Objectives of Sustainable Development

First Degree in Nautical Engineering and Maritime Transport

Academic year 2026-2027

1. IDENTIFYING DATA					
Degree	First Degree in Nautical Engineering and Maritime Transport			Type and Year	Core. Year 1
Faculty	School of Maritime Engineering				
Discipline					
Course unit title and code	G2033 - Cross-Curricular Values and Objectives of Sustainable Development				
Number of ECTS credits allocated	6	Term		Semester based (2)	
Knowledge Field	Industrial engineering, mechanical engineering, automation engineering, industrial organization engineering and navigation engineering				
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. DE QUIMICA E INGENIERIA DE PROCESOS Y RECURSOS.
Name of lecturer	ALBERTO COZ FERNANDEZ
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Office	E.T.S. de Náutica. Planta: + 2. DESPACHO (257)
Other lecturers	TOMAS MARTIN HERNANDEZ RAMON GANDARILLAS PEREZ FRANCISCO JOSE CORREA RUIZ PAULA LOPEZ CASADO ROBERTO MARTIN MELON CRISTINA TIRNAUCA FLORENCIA SOFIA GOMEZ SANCHEZ

4. OBJECTIVES
This subject integrates skills and knowledge related to Human Rights and the Sustainable Development Goals:
1. To understand the principles of universal accessibility and design for all people , as well as the legitimate and multidisciplinary use of information and knowledge.
2. To learn about Human Rights, equality and equity, as well as general volunteering issues. In addition, knowledge related to harassment will be provided in accordance with the new SCTW and IMO guidelines.
3. To know the Sustainable Development Goals, analysis criteria and decision-making tools.

6. SUBJECT PROGRAM	
CONTENTS	
1	Topic 1. Introduction to the Sustainable Development Goals and the coursework 2030 Agenda; Sustainable Development Goals; Foundations for the coursework
2	Topic 2. Principles of Universal Accessibility and Design for All Universal access; Principles of universal design; Types of barriers; Accessibility and society; Diversity; Application of universal design in the coursework
3	Topic 3. Legitimate and Multidisciplinary Use of Information and Knowledge From disinformation to scientific information; Critical search; access and ethical use; Critical analysis of scientific and technical information sources and other resources; Scientific communication; Specialized information search tools and artificial intelligence; Copyright and the ethical and legal use of information; Open access to scientific knowledge. Application of the legitimate and multidisciplinary use of information and knowledge to the work of this subject.
4	Topic 4. Human Rights, Equality, and Equity (i) Universal Declaration of Human Rights. Monitoring human rights. Human rights observers; (ii) The Human Development Index. (iii) Goals related to equality: 4, 5, and 10; (iv) Objective indicators of equality; (v) Egalitarian societies. Application of human rights, equality, and equity in the coursework.
5	Topic 5. Harassment Some facts about equality/inequality. Harassment: definition and indicators; Harassment based on sex/gender: definition, indicators; Harassment management: anticipation, prevention, planning, preparation, responses and intervention; Harassment prevention protocol. UC regulations.
6	Topic 6. Volunteering Ways of social participation; Volunteering related to the SDGs; Types of volunteering in Spain (Law 45/2015); Volunteering platforms; Skills.
7	Topic 7. Sustainability Ecology and Environment; Global Pollution Problems; Climate Change and Solutions; Main Environmental Problems in the Marine Environment; Environmental Technologies in the Marine Environment; Sustainability; Indicators of Sustainability; Economic, Environmental, and Social Impact Assessment. Search for solutions related to the coursework and analysis of economic, environmental, and social impacts.
8	Topic 8. Decision-making tools Responsible use of AI tools; Multi-criteria analysis techniques for decision-making; Resolution of practical cases; Use of multi-criteria analysis techniques for decision-making regarding the solutions proposed in the course work.

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Simulation problems and practical work	Laboratory evaluation	No	Yes	40,00
Small tasks in class	Others	No	Yes	20,00
Written exams	Written exam	No	Yes	40,00
TOTAL				100,00

Observations
Observations for part-time students
Part-time students will have the option of taking continuous assessment (practical assessment, assessment of in-class tasks and written exams) by attending 60% of the classes, or going directly to the final and extraordinary exam with 100% of the grade.

8. BIBLIOGRAPHY AND TEACHING MATERIALS
BASIC
Los objetivos de desarrollo sostenible : hoja de ruta en la educación del siglo XXI : innovación docente en la formación de profesionales. Montserrat Vargas Vergara, Lourdes Aragón. Octaedro Universidad, 2021
Ingeniería para la sostenibilidad: guía práctica para el diseño sostenible. Jonker, Gerald; Harmsen, Jan, 2013
La formación integral del alumnado universitario para responder a los retos de la sostenibilidad y la responsabilidad social. Ana García-Olalla, María José Bezanilla, Arantza Arruti, Susana Romero-Yesa.
Información científica – Conseguir y redactar: 10 guías visuales de la BUC: https://web.unican.es/buc/recursos/guias-y-tutoriales/guia?g=197