SUBJECT TEACHING GUIDE

G1126 - 3-Dimensional Modelling of Ship Elements

Degree in Maritime Engineering

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Degree in Maritime Engineering			Type and Year	Optional. Year 4
Faculty	School of Maritime Engineering				
Discipline	Subject Area: Optional Subjects Optional Module				
Course unit title and code	G1126 - 3-Dimensional Modelling of Ship Elements				
Number of ECTS credits allocated	6	Term		Semester based (1)	
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. INGENIERIA GEOGRAFICA Y TECNICAS DE EXPRESION GRAFICA
Name of lecturer	FERNANDO FADON SALAZAR
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Office	E.T.S. de Ingenieros Industriales y de Telecomunicación. Planta: - 2. DESPACHO (S2004)
Other lecturers	

3.1 LEARNING OUTCOMES

- Designing and obtaining graphic documentation required by 3D modeling, applied to the design of equipment and facilities related to maritime engineering, such as ships, piping, ship hulls, etc.

4. OBJECTIVES

Graphically designing facilities and equipment related to maritime engineering.

Manage solid modeling programs

Getting drawings and graphics of ships equipment and systems

6. SUBJECT PROGRAM	
CONTENTS	
1	CAD / CAM / CAE systems. Specialized CAD applications. 3D modelling.
2	Representation of maritime facilities and ships. 3D modeling in Autodesk Inventor: ship hulls, machines, mechanisms and others. Marine devices.
3	PLM (Product Lifecycle Management) Development work on maritime facilities: ship hulls, piping, winches and other devices of the ships , etc. Presentation and defense of work.

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Continuous evaluation projects	Work	No	Yes	100,00
TOTAL				100,00
Observations				
Observations for part-time students				
Follows the same dynamics as presential students				

8. BIBLIOGRAPHY AND TEACHING MATERIALS
BASIC
Waguespack, C. (2013). Mastering autodesk inventor 2014 and autodesk inventor LT 2014. John Wiley and Sons.
Senabre Blanes, C. (2009). Diseño mecánico con autodesk inventor : Paso a paso. Club Universitario.
Younis, W. (2012). Inventor y su simulación con ejercicios prácticos: Una guía paso a paso con soluciones para el diseño en ingeniería. Marcombo.