

SUBJECT TEACHING GUIDE

1187 - Economic Management

Master's Degree in Marine Engineering

Academic year 2023-2024

1. IDENTIFYING DATA					
Degree	Master's Degree in Marine Engineering			Type and Year	Compulsory. Year 1
Faculty	School of Maritime Engineering				
Discipline	Economic Management				
Course unit title and code	1187 - Economic Management				
Number of ECTS credits allocated	6	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Combination of face-to-face and online training

Department	DPTO. CIENCIAS Y TECNICAS DE LA NAVEGACION Y DE LA CONSTRUCCION NAVAL				
Name of lecturer	LUIS MANUEL VEGA ANTOLIN				
E-mail	luismanuel.vega@unican.es				
Office	E.T.S. de Náutica. Planta: + 2. DESPACHO (211)				
Other lecturers	BEATRIZ BLANCO ROJO				

3.1 LEARNING OUTCOMES

- Analyze and optimize the economic management in the marine industry

4. OBJECTIVES

Know, analyze and optimize the economic management in the operation of all marine industry

6. SUBJECT PROGRAM	
CONTENTS	
1	Probability density curves in Maintenance
1.1	Discete probability density functions
1.2	Continuous probability density functions
1.3	Reliability
1.4	Analysis of failures
2	Project management in the naval sector. CPM, PERT methods, the time-cost trade-off, resources asignation
2.1	The critical path method
2.2	The Pert method
3	Management and models of stocks
3.1	Stock control methods
3.2	Stock management methods

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
25%	Activity evaluation with Virtual Media	No	Yes	25,00
25%	Others	No	Yes	25,00
50%	Written exam	No	Yes	50,00
TOTAL				100,00
Observations				
Activities performed on Blackboard: 25%				
Activities on-site: 25%				
Continuous evaluation: 50%				
Observations for part-time students				

8. BIBLIOGRAPHY AND TEACHING MATERIALS**BASIC**

- Caridis, P., 2001. Inspection, Repair and Maintenance of Ship Structures. Witherby & Co Ltd, London.
- Carter, A.D.S., Mechanical Reliability, 2nd edn. Macmillan, London, 1969.
- Collins, J.A., Failure of Materials in Mechanical Design, Wiley, New York (1981).
- Fullwood, R.F., Probabilistic Safety Assessment in the Chemical and Nuclear Industries, Butterworth-Heinemann, Oxford (1999).
- García Bercedo, R., Irastorza Hernando, I., y Larrieta Fernández, I., 2003. Organización y mantenimiento del buque. Universidad del País Vasco, Servicio Editorial, Bilbao
- Harrison, F. y Lock, Dennis, 2004. Advanced Project Management. A Structured approach. 4th edición. Gower, England
- Heizer, J. y Render, B., 1997. Dirección de la Producción. Decisiones tácticas. Prentice Hall, UK
- Kapur, K.C. and Lamberson, L.R., Reliability in Engineering Design, Wiley, New York (1977).
- Keller, G., 2005. Statistics for management and economics, 7ª edición. Thomson-Duxbury.
- Kivensén, G., Durability and Reliability in Engineering Design, Pitman, London (1972).
- Lyonnet, P., 1991. Maintenance Planning. Methods and mathematics. Chapman & Hall, USA.
- Maldonado González, C., 1979. El mantenimiento preventivo.: 2nd ed. Index, Madrid .