

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	JOSE RAMON SAN CRISTOBAL MATEO				
E-mail	jose.sancristobal@unican.es				
Office	E.T.S. de Náutica. Planta: + 2. DESPACHO (268)				
Other lecturers					

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. COURSE ORGANIZATION	
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 Desig, 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.
Kivensen, 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. Índex, Madrid .

