

SUBJECT TEACHING GUIDE

M1495 - Research Methodology Applied to Marine Engineering

Master's Degree in Marine Engineering

Academic year 2022-2023

1. IDENTIFYING DATA									
Degree	Master's Degree in Marine Engineering			Type and Year	Compulsory. Year 1				
Faculty	School of Maritime Engineering								
Discipline	Training in Research Research Methodology Applied to Marine Engineering								
Course unit title and code	M1495 - Research Methodology Applied to Marine Engineering								
Number of ECTS credits allocated	6	Term Semeste		er based (1)					
Web									
Language of instruction	Spanish	English Friendly	No	Mode of o	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	ALFREDO TRUEBA RUIZ		
E-mail	alfredo.trueba@unican.es		
Office	E.T.S. de Náutica. Planta: + 2. DESPACHO (223)		
Other lecturers			

3.1 LEARNING OUTCOMES

- Ability to initiate research activity.
- Ability to apply the research methodology to marine engineering.
- Ability for marine engineering projects and publish the results.
- Use of leadership and management qualities.



4. OBJECTIVES

Provide students with the basic conditions for development the research activity (databases, ability to extract and synthesize information, preparation of scientific papers), by initiating the development of research projects and the development a doctoral thesis.

Train the trainee in the use of leadership and management qualities as set out in Table A-III/2 of the Seafarers' Training, Certification and Watchkeeping Code, as amended (STCW-78):

- Knowledge and ability to apply effective resource management: determination and leadership, including motivation.
- Knowledge and ability to apply decision-making techniques: assessing the effectiveness of results.
- Development, implementation and monitoring of standard operating procedures.

6. COURSE ORGANIZATION				
CONTENTS				
1	1. Introduction to scientific research.			
2	2. Scientific research methodology.			
3	3. Access to information and documental resources.			
4	4. The research project.			
5	5. The doctoral thesis.			
6	6. Publication of scientific work.			

7. ASSESSMENT METHODS AND CRITERIA									
Description	Туре	Final Eval.	Reassessn	%					
Virtual classroom activities.	Activity evaluation with Virtual Media	Yes	Yes	25,00					
Classroom activities.	Others	Yes	No	25,00					
Theory test.	Written exam	Yes	Yes	50,00					
TOTAL 10									

Observations

continuous evaluation (50%) = virtual classroom (25%) + classroom (25%)

FINAL MARK = continuous evaluation (50%) + theory test (50%)

Observations for part-time students

The same



8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Bunge M. 2004. La investigación científica. 3ª ed. Siglo XXI editores.

Eyssautier De La Mora M. 2006. Metodología de la investigación: desarrollo de la inteligencia. 5ª ed. Thomson Editores.

Icart Isern MT, Pulpón Segura AM. 2012. Cómo elaborar y presentar un proyecto de investigación, una tesina y una tesis. Editorial Barcelona: Publicacions i Edicions de la Universitat de Barcelona.

Medawar PB. 2011. Título: Consejos a un joven científico. Editorial Barcelona: Publicacions i Edicions de la Universitat de Barcelona.

Münch L, Ángeles E. 2011. Métodos y técnicas de investigación. 4ª ed. Trillas editores.

Namakforoosh MN. 2005. Metodología de la investigación. 2ª ed. Limusa editores.

Tamayo M. 2004. El proceso de la investigación científica: incluye evaluación y administración de proyectos de investigación. 4ª ed. Limusa editores.