

SUBJECT TEACHING GUIDE

G312 - PHYSICS 1

Degree in Maritime Engineering

Degree in Maritime Engineering and Naval Architecture

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Degree in Maritime Engineering Degree in Maritime Engineering and Naval Architecture			Type and Year	Core. Year 1 Core. Year 1
Faculty	School of Maritime Engineering				
Discipline	Subject Area: Physics Basic Training Module				
Course unit title and code	G312 - PHYSICS 1				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Knowledge Field					
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. FISICA APLICADA
Name of lecturer	VIDAL FERNANDEZ CANALES
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Other lecturers	MARIA DOLORES ORTIZ MARQUEZ

4. OBJECTIVES

Acquire basic Physics knowledge
 Explain usual phenomena by using simple models
 Use experimental and mathematical tools
 Analyze diverse physical phenomena
 Perform experiments acquire data, analyze results and derive conclusions
 Write precisely technical reports
 Solve qualitatively and quantitatively related problems

6. SUBJECT PROGRAM

CONTENTS

1	Introduction to Physics
1.1	Matter structure
1.2	Measuring.
1.3	Vectors
2	Mechanics
2.1	Cinematics
2.2	Dynamics
2.3	Work and energy
2.4	Applications: Oscillations and Fluids

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Laboratory	Laboratory evaluation	No	No	20,00
Periodics exams	Written exam	No	Yes	40,00
Final exam	Written exam	Yes	Yes	30,00
Assigned tasks	Work	No	Yes	10,00
TOTAL				100,00
Observations				
The pupils can discard those assigned tasks and periodic exams with a low mark, and retake their percentage in the final exam.				
Observations for part-time students				
Part-time students can ask for a laboratory exam in order to obtain the corresponding mark (20%) if they can not attend the laboratory ordinary sessions.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Física para la ciencia y la tecnología, P. Tipler y G. Mosca (Reverté)
 Física para ciencias e ingeniería, R. Serway y J. Jewett (Paraninfo)
 Física Universitaria, Sears y Zemansky / Young y Freedman, 13 ed., (Pearson)
 Material didáctico en curso moodle y web de la asignatura <http://personales.unican.es/fernancv/Fisica>

