

SUBJECT TEACHING GUIDE

G1052 - Navigation IV

Degree in Nautical Engineering and Maritime Transport

Academic year 2021-2022

1. IDENTIFYING DATA					
Degree	Degree in Nautical Engineering and Maritime Transport			Type and Year	Compulsory. Year 3
Faculty	School of Maritime Engineering				
Discipline	Subject Area: Navigation				
Course unit title and code	G1052 - Navigation IV				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Web	http://web.unican.es/departamentos/navycn/estudios/detalle-asignatura?c=G1052&p=125&a=2016				
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. CIENCIAS Y TECNICAS DE LA NAVEGACION Y DE LA CONSTRUCCION NAVAL				
Name of lecturer	ANDRES RAFAEL ORTEGA PIRIS				
E-mail	andres.ortega@unican.es				
Office	E.T.S. de Náutica. Planta: + 2. DESPACHO (265)				
Other lecturers	JOSE IVAN MARTINEZ GARCIA				

3.1 LEARNING OUTCOMES
- Plan and conduct a passage and determine position as per STCW 2010 Code as amended.
- Maintain a safe navigational watch.
- Use of ECDIS to maintain the safety of navigation

4. OBJECTIVES

Celestial navigation: Ability to use celestial bodies to determine the ship's position.
Use of ECDIS to plan and conduct safe navigation. Knowledge of the capacity and constraints of ECDIS. Sufficiency in the use, interpretation and analysis of information obtained from ECDIS
Determination and projection of the movement of the tides using the method of the harmonic constants.
Watchkeeping: The use of information from navigational equipment for maintaining a safe navigational watch
Thorough knowledge of and ability to use nautical charts.

6. COURSE ORGANIZATION

CONTENTS	
1	Situation by Lines of position
2	Projections. Nautical cartography
3	ECDIS
4	Tides theory

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Minimum mark: 5.00 Duration: 2 hours Date of completion: After the 4th week of class Reassessment conditions: Final Exam in February	Written exam	No	Yes	30,00
Minimum mark: 5.00 Duration: 2 hours Date of completion: After the 12th week of class Reassessment conditions: Final Exam in February	Written exam	No	Yes	30,00
Minimum mark: 5.00 Duration: 2 hours Date of completion: In the last week of class Reassessment conditions: Final Exam in February	Laboratory evaluation	No	No	40,00
TOTAL				100,00
Observations				
<p>The student who passes all exams will not have to take the final exam. The evaluation criteria of the competence will be those set by the STCW 2010. To pass the subject students must have passed the subjects G 1049 and G1050 Navigation I and Navigation II. In both the partial and final exams it is mandatory to approve the theoretical part so that the teacher can correct the practical part. A remote assessment scenario may be presented, which would only be used if the competent health and educational authorities so indicate.</p>				
Observations for part-time students				
Part-time students will agree with the teacher the time of the partial exams depending on their availability.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Número: 59288

Autor: Moreu Curbera, José María.

Título: Astronomía y navegación / Moreu Curbera, Martínez Jiménez. Edición: 3a ed.

Editorial: [s.l. : [s.n.], D.L. 1972-1987 (Madrid : Minuesa). Descripción física: 3 v. : il. ; 24 cm.

Notas: Incluye actualizaciones en T. I y T. III (NR 302586)

Contiene: T. I. Primer curso de náutica - T. II. Segundo curso de náutica - T. III. Curso de capitanes ISBN: 84-404-0253-8 : (T. 2)

84-85645-01-4 : (T. 1)

Número: 270150

Autor: Bowditch, Nathaniel.

Título: The american practical navigator / originally by Nathaniel Bowditch.

Edición: 2002 bicentennial ed. / prepared by the National Imagery and Mapping Agency. Editorial: [Deerfield Beach (Florida)] :

Lighthouse Press, [2002]

Descripción física: XI, 879 p. : il. n. ; 28 cm. + 1 disco compacto. ISBN: 978-1-57785-272-8

Apuntes del curso de ECDIS suministrados por el profesor