

Course guide

280631 - TFG-NAUTM - Bachelor's Thesis

Last modified: 13/10/2025

Unit in charge:	Barcelona School of Nautical Studies	
Teaching unit:	742 - CEN - Department of Nautical Sciences and Engineering. 756 - THATC - Department of History and Theory of Architecture and Communication Techniques. 707 - ESAII - Department of Automatic Control. 732 - OE - Department of Management. 751 - DECA - Department of Civil and Environmental Engineering. 748 - FIS - Department of Physics.	
Degree:	BACHELOR'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT (Syllabus 2010). (Project subject).	
Academic year: 2025	ECTS Credits: 12.0	Languages: Catalan, Spanish, English

LECTURER

Coordinating lecturer:	CLAUDIA BARAHONA FUENTES
Others:	Primer quadrimestre: CLAUDIA BARAHONA FUENTES - GNTM MARIA DEL CARME BORDERA PEREZ - GNTM Segon quadrimestre: CLAUDIA BARAHONA FUENTES - GNTM MARIA DEL CARME BORDERA PEREZ - GNTM

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
GNTM-CETF. CTFG - Ability to carry out an original exercise consisting of a comprehensive project in the field of professional nautical Engineering, in which the competencies acquired in the teachings are synthesized and which, if possible, corresponds to a real case that may be presented in the realization complementary external internships.

Generical:

GNTM-CG01. Capacity for the management, operation and exploitation of facilities in the field of Nautical Engineering and Maritime Transport, whose purpose is the application, handling, reform, repair, conservation, installation or assembly of: navigation equipment, maritime radio communications equipment, maritime safety equipment, ship loading and unloading facilities, electrical and electronic installations, mechanical equipment and ship automation processes.

GNTM-CG02. Ability to direct the activities that are the object of Nautical Engineering and Maritime Transport.

GNTM-CG03. Knowledge of basic and technological subjects, which enables them to learn new methods and theories, and gives them the versatility to adapt to new situations.

GNTM-CG04. Ability to solve problems with initiative, decision making, creativity, critical reasoning and to communicate and transmit knowledge, abilities and skills in the field of Nautical Engineering and Maritime Transport.

GNTM-CG05. Knowledge to carry out measurements, calculations, evaluations, appraisals, expert opinions, studies, reports, and other similar works.

GNTM-CG06. Ability to handle specifications, regulations and mandatory standards.

GNTM-CG07. Ability to analyze and assess the social and environmental impact of technical solutions.

GNTM-CG08. Organizational and planning capacity in the field of the company, and other institutions and organizations.

GNTM-CG09. Ability to work in a multilingual and multidisciplinary environment.

GNTM-CG10. Knowledge, understanding and ability to apply the necessary legislation in the exercise of the profession of Pilot of the Merchant Marine.

GNTM-CG12. Conceive, manage and implement processes, systems and / or services in the field of Nautical Engineering and Maritime Transport, including the development of projects in the field of specialty.

Transversal:

04 COE N3. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.

07 AAT N3. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.

03 TLG. THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

Apply the skills acquired throughout your studies

STUDY LOAD

Type	Hours	Percentage
Self study	285,0	95.00
Guided activities	15,0	5.00

Total learning time: 300 h

CONTENTS

title english

Description:

Individual work, in which the creative and design side must predominate. It is possible to develop it in an institution or in a national or foreign company.

Full-or-part-time: 300h

Guided activities: 15h

Self study : 285h



GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Sancho Guinda, Carmen [et al.]. Building up communication skills : professional and academic training for engineers [on line]. Madrid: García-Maroto Editores, [2019] [Consultation: 22/12/2022]. Available on: https://www-ingebook-com.recursos.biblioteca.upc.edu/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=8420. ISBN 9788417969059.