

Course guide

280662 - TFG-TMAR - Bachelor's Thesis

Last modified: 13/10/2025

Unit in charge: Barcelona School of Nautical Studies
Teaching unit: 756 - THATC - Department of History and Theory of Architecture and Communication Techniques.
742 - CEN - Department of Nautical Sciences and Engineering.
710 - EEL - Department of Electronic Engineering.
709 - DEE - Department of Electrical Engineering.

Degree: BACHELOR'S DEGREE IN MARINE TECHNOLOGIES (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 - GTDT
MARIA DEL CARME BORDERA PEREZ - GTDT

Segon quadrimestre:
CLAUDIA BARAHONA FUENTES - GTMDT
DEAN JAMES KRAUTH - GTMDT

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CE35.GEM. Ability to perform an original exercise consisting of a comprehensive project in the field of Marine Engineering of a professional, which summarize the skills acquired in the teachings and give it to be possible to respond to a real case that may arise in conducting complementary external practices .

Generical:

GTM-CG01. Ability to manage, operate and exploit facilities in the field of Marine Engineering, whose objective is the reform, repair, conservation, installation, assembly or exploitation of: energy facilities, electrical and electronic facilities, mechanical equipment and automation processes of ships.

GTM-CG02. Ability to direct the activities that are the object of marine engineering.

GTM-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.

GTM-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 Marine Engineering.

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

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

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

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

GTM-CG10. Knowledge, understanding and ability to apply the necessary legislation in the exercise of the profession of Engineer Officer of the Merchant Marine.

GTM-CG17. Use of written and spoken English.

Transversal:

07 AAT. SELF-DIRECTED LEARNING. Detecting gaps in one's knowledge and overcoming them through critical self-appraisal. Choosing the best path for broadening one's knowledge.

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.

04 COE. EFFICIENT ORAL AND WRITTEN COMMUNICATION. Communicating verbally and in writing about learning outcomes, thought-building and decision-making. Taking part in debates about issues related to the own field of specialization.

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.

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 [t al.]. Building up communication skills : professional and academic training for engineers [on line]. Madrid: García-Maroto Editores, [2019] [Consultation: 27/03/2023]. Available on: https://www-ingebook-com.recursos.biblioteca.upc.edu/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=8420. ISBN 9788417969059.