

Course guide

280630 - 280630 - Work Placement

Last modified: 30/07/2024

Unit in charge:	Barcelona School of Nautical Studies	
Teaching unit:	742 - CEN - Department of Nautical Sciences and Engineering.	
Degree:	BACHELOR'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT (Syllabus 2010). (Optional subject).	
Academic year: 2024	ECTS Credits: 30.0	Languages: Catalan

LECTURER

Coordinating lecturer:	JOAN AGUT TEBÉ
Others:	Primer quadrimestre: JOAN AGUT TEBÉ - Grup: GNTM JOSEP ALBERT RIBET GÓMEZ - Grup: GNTM Segon quadrimestre: JOAN AGUT TEBÉ - Grup: GNTM JOSEP ALBERT RIBET GÓMEZ - Grup: GNTM

PRIOR SKILLS

In case of carrying out part or all of the practices on board a ship it will be necessary to pass the medical examination of maritime boarding to the ISM.

Medical examination of physical fitness: When the time comes to enroll as a cadet in a merchant ship for, the student must pass a medical examination in which his fitness to embark will be assessed. (O.M. of the Presidency of 1 March 1973. BOE No. 56 of 6 March. R.D. 1696/2007 of 14 December 2007).

These medical examinations shall be carried out in the maritime health centres of the Social Institute of the Navy, ruled by the provisions of R.D. 1696/2007 of 14 December 2007. In order for them to undergo the medical examination of maritime embarkation, they must present a seabook and a document proving that they have passed the basic or equivalent training course in accordance with Section A-VI/1 of the Training Code of Convention STCW-78/95.

In the event that a student is considered unfit for this medical examination, he or she will have the possibility to do the internship in a company on land, so that he or she can obtain the corresponding academic qualification. These practices will be carried out through UPC-Company agreements. The equivalence of credits for business practices is the same as for ship practices.



REQUIREMENTS

The registration of external internships can be formalized when only a maximum of 4 subjects are outstanding (excluding the subject) of compulsory boat practices in addition to the limits of credits provided by automatic compensation authorized in each degree.

Deck Cadets: To carry out the internship. The student will need the Student Certificate/a. All students who have enrolled a minimum of 180 ECTS credits and have exceeded 80% of these credits (in total, you must have exceeded 144 credits) can apply for the Student Certificate (including the training book) which can only obtain if the student has successfully completed all subjects with STCW competence. They must also be in possession of the basic training certificate.

In order to board, the student will also need the following documentation:

- A) Maritime Book
- B) On-board Training Book for Nautical or Engine Students
- C) Medical examination
- D) School insurance

Internships in companies: Internships in companies will have to be carried out through educational cooperation agreements UPC-EMPRESA and in companies related to the naval/maritime sector and according to the competences of the studies that are studied.

In order to carry out UPC-COMPANY curricular internships, the student must meet the criteria for enrolling in the company internship course. themselves.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Generical:

- 2. Capacitat PER CONCEBRE, I MANAGE TO IMPLEMENT SISTEMES Complexos L'ambit of L'ENGINYERIA NÀUTICA I TRANSPORT MARÍTIM
- 3. ABILITY TO IDENTIFY AND SOLVE PROBLEMS IN THE FIELD OF ENGINEERING

Transversal:

- 1. 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.
- 4. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.

TEACHING METHODOLOGY

External academic practices are a formative activity carried out by university students and supervised and evaluated by universities. The aim of these is to enable the student to apply and supplement the knowledge acquired in their academic training and, thus, to promote the acquisition of competences that prepare them for the exercise of professional activities, facilitate their employability and build their entrepreneurial capacity.

The FNB will appoint a tutor, from among the teachers assigned to the school, who will perform academic tutoring and evaluation tasks for students/students who are doing internships in companies.

The equivalence of credits for external internships will be 1 credit ECT=30h of work. Therefore, the duration of the internship, both in boat and in company, will be at least 4 months.

The regulations associated with external practices can be consulted on the web:
<http://www.fnb.upc.edu/sites/default/files/Normativa%20Practiques%20externs%20GRAUS.pdf>

Deck cadets: The vessels on which academic practices can be carried out are:

- a) Merchant ships of 500 gross tonnage or more, during which at least three loading operations and three unloading operations are carried out.
- b) Merchant or civil vessels of gross tonnage of 500 or more or 24 m or more in length.
- c) Fishing vessels of 24 m or more in length.

The practices for obtaining professional qualifications (Second Merchant Marine Pilot or Second Merchant Marine Machine Officer) are regulated in the following regulations:

- 1. Orden de 21 de junio de 2001 sobre tarjetas profesionales de la Marina Mercant
- 2. Real Decreto 269/2022, de 12 de abril, por el que se regulan los títulos profesionales y de competencia de la Marina Mercante.

Internships in companies: At the time of formalizing the university-business cooperation agreement, the student must inform academic management if they want the internships to correspond to curricular practices, so that it can be verified that the requirements for this are met.

In no case can administrative support and teaching support tasks be considered as external practices.

LEARNING OBJECTIVES OF THE SUBJECT

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Design and execute a good advanced search strategy with specialized information resources. Identify the relevance and quality of the information.

Identifies and models complex systems. Carry out qualitative analyzes and approaches, establishing the uncertainty of the results. Prepare hypotheses and experimental methods to validate them. Identify key components and establish commitments and priorities. Carry out the tasks based on the basic orientations given by the teaching staff, deciding the time and resources necessary to reach them. Evaluate the strengths and weaknesses themselves, acting accordingly.

Identifies user needs and develops a product-process-service definition, as well as initial specifications. Follow a design process management model based on a standard. Evaluate the application of applicable legislation and regulations.

Identify the needs and opportunities of the market. It collects information that allows to elaborate the specifications of a new product, process or service. Develop a basic business plan. Carry out the planning and execution of a design process.

Acquire professional experience and a better understanding of the structure, organization, operation and activity of a corporate organization in the maritime sector and its surroundings.

Obtain new knowledge in the specific field in which the training activity is carried out.

Exercise generic and specific skills in a real work environment. Design and execute a good advanced search strategy with specialized information resources. Identify the relevance and quality of the information.

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COMPETENCES OF THE SUBJECT:

general:

CG6. SOLVENT USE OF INFORMATION RESOURCES. Manage the acquisition, structuring, analysis and visualization of data and information in the field of specialization and critically evaluate the results of this management.

CG7. LEADERSHIP LEARNING Detect gaps in one's own knowledge and overcome them through critical reflection and the choice of the best action to expand this knowledge.

CG8. Ability to identify and SOLVENT PROBLEMS IN THE FIELD OF Nautical Engineering and Maritime Transport. (Additional competence of the Faculty of Nautic of Barcelona) Capacity for the approach and resolution of problems in the field of Nautical and Maritime Transport assuming initiatives, making decisions and applying creative solutions, within the framework of a systematic methodology.

CG9. Ability to conceive, DESIGN AND IMPLEMENT COMPLETE SYSTEMS IN THE FIELD OF NAUTICAL AND MARITIME TRANSPORTATION (Additional competence of the Faculty of Nautical of Barcelona) Capacity for the design, design and implementation of processes, systems and / or services within the scope of the Nautical and Maritime Transport, including the drafting and development of projects in the field of specialization, knowledge of basic materials and technologies, decision making, management of the activities that are the object of the projects, the realization of measurements, calculations and valuations, the management of specifications, regulations and standards of compulsory compliance, the assessment of the social and environmental impact of the technical solutions adopted, the economic valuation and of material and human resources involved in the project, with a systematic and integrative vision.

STUDY LOAD

Type	Hours	Percentage
Self study	720,0	96.00
Hours large group	30,0	4.00

Total learning time: 750 h

CONTENTS

(ENG) Watchkeeping at sea/port

Description:

Maneuvering of ships, astronomical observations, coastal navigation, correction of documentation (navigation cards, defeats etc.), Controls of loading and unloading operations, familiarization with manifest crew, crew lists, B / L, etc.)

Specific objectives:

It acquires professional experience and a better understanding of the structure, organization, operation and activity of a business organization in the maritime sector and its environment.

Obtain new knowledge in the specific field in which the training activity is carried out.

Exercise generic and specific competencies in a real work environment.

Related activities:

Those specified in sections 1,2,3,4 of the STCW and in addition to the tasks of Sections 5 and 6 if they have embarked on a tanker, gas or chemical tanker, of the record book of the student of the bridge student .

Full-or-part-time: 1h

Theory classes: 1h

GRADING SYSTEM

The evaluation system consists of an overall test consisting of two exercises that the student must pass after completing their internship. The first exercise consists of the presentation of a work/report, with a length of between 40 and 50 pages, which includes:

NAUTICAL:

1. Main features and description of the boat spaces and decks: In addition to announcing the boat information, use floor plans to note the name of the spaces.
2. On-board organisation chart and crew duties. You must make an organizational chart with all the crew, together with the student himself and then collect the tasks that each one develops on board the boat.
3. Explanation of the daily tasks performed by the student during the berth and departure manoeuvre, during navigation, during periodic exercises and loading: At this point he must explain in detail his tasks in the different situations mentioned above. If it is the case that, because of the characteristics of the ship, some situation, such as cargo on a passenger ship, cannot be met, it can be replaced by another related to the type of boat, such as checking passengers on a cruise.

4. Operation of equipment: In this section you should explain step by step how the processes that require the following points are carried out, attaching screenshots or schematic drawings.

- 4.1 Explain in detail the clutter setting and the rain on the radar.
- 4.2 Explain in detail how a travel plan or route is created.
- 4.3 Explain in detail how to adjust the autopilot to follow a route.

5. List of problems raised and the procedure for their resolution: You must explain the problems that may have arisen during your stay on board the vessel and also detail its resolution.

6. Assessment of practices and suggestions for improvement: At this point the student must make an assessment of his practices,

providing the positive points, the negative ones and what things he has detected that should be changed for a better functioning of the boat, or the management of practices.

7. Preparation of plans (Annexes): The student must make a plan by hand of each point, as DIN A4 sheet, DOES NOT WORK WITH COMPUTER, drawing and annotating the name of all the elements of the site with English and Spanish or Catalan.

- 7.1 Bridge of government.
- 7.2 Manoeuvre in the bow.
- 7.3 Aft manoeuvre.
- 7.4 Engine room.

COMPANIES: In the case of external internships, the contents of the work will have to describe the company in which the internships have been carried out and the tasks performed in the same. You will need to talk to the internship tutor to define some other, more specific content that needs to be included in the memory. The length of the work should also be between 40 and 50 pages.

Minimum contents:

- a) Personal data of the student.
- b) Collaborating entity in which you have performed the practices and location.
- c) Specific and detailed description of the tasks, works and departments of the entity to which you have been assigned.
- d) Assessment of the tasks carried out with the knowledge and skills acquired in connection with university studies.
- e) List of problems raised and the procedure followed for their resolution.
- f) Identification of the learning inputs of the internship.
- g) Evaluation of practices and suggestions for improvement.

The second exercise consists of the oral description of the report presented and the tasks carried out during the training, both on board and in companies. This presentation will not have to last more than 15 or 20 minutes. After the presentation, the internship tutor will ask questions that allow a better evaluation of the student.

The final traineeship mark shall be computed as an average for the first and second periods.

$$N. \text{ final} = 0.50 \text{ Ne1} + 0.50 \text{ Ne2}$$

N. final: Final grade
Ne1: Grade 1 rating
Ne2: Grade 2 rating

The students and the students who choose to carry out the internship in companies of the harbour marine field, these will not appear in the mention associated with the European graduate title/a. The external internship course will not be eligible for compensation.

EVALUATION CRITERIA: Students have a rubric to prepare the exhibition and make the work. These clearly specify how each of the 10 points of the written work or report evaluation and the 10 points of the exposure evaluation are evaluated

EXAMINATION RULES.

In order to be able to evaluate external boat practices, the student or student must provide the duly completed training book, a photocopy of the boarding pass where there is a minimum of 4 months on board as a bridge student, a photocopy of the tasks carried out and signed by the officers of the ship and photocopy of annex 4 certifying the shipment of 4 months.

The students who carry out the practices in company will have to take a letter of the same where they specify the tasks carried out (Annex 4) with the numerical valuations and a certified copy by academic management of the agreement University-company under which they are realized the practices