Degree competences to which the subject contributes

**Basic:**

CB7. That the students can apply their knowledge and ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their study area.

CB8. Students should be able to integrate knowledge and handle the complexity of making judgments based on information that, being incomplete or limited, includes reflections on the responsibilities social and ethical linked to the application of their knowledge and judgments.

CB9. That students can communicate their conclusions and the knowledge and latest rationale underpinning to specialists and non-specialty clearly and unambiguously.

**Specific:**

CE5. (ENG) Conocimiento de los mercados de la construcción y reparación de buques y de sus aspectos legales y económicos, para su aplicación a los correspondientes contratos y especificaciones.
Relate the technical knowledge of design with the practical application and its implications of quality, cost and term.

Learn the keys to design an efficient Constructive Strategy.

Know the specificities of the Planning and Management of complex multidisciplinary projects.

Knowing the development environment of the industrial activity in shipbuilding in its technical, competitiveness and social aspects.

Know the process of putting into operation, testing and acceptance of the ship.

Identify the keys of efficiency in the management of productive processes.

Know the technology involved in the shipbuilding processes and their specific application.

Identify the keys to the execution of the construction and repair in the environment of the complete project.

Familiarize the student with the techniques of improving current business results.

### Transversal:

CT3. TEAMWORK: Ability to work as a member of an interdisciplinary team, either as a member or performing management tasks, with the aim of contributing to projects pragmatically and sense of responsibility, assuming commitments considering the resources available.

CT4. EFFECTIVE USE OF INFORMATION RESOURCES: Manage the acquisition, structuring, analysis and visualization of data and information in the field of specialty, and critically evaluate the results of this management.

### Teaching methodology

Perform information searches, regulations, analyzes, plans, projects.

Elaboration of concrete projects.

### Learning objectives of the subject

Relate the technical knowledge of design with the practical application and its implications of quality, cost and term.

Learn the keys to design an efficient Constructive Strategy.

Know the specificities of the Planning and Management of complex multidisciplinary projects.

Knowing the development environment of the industrial activity in shipbuilding in its technical, competitiveness and social aspects.

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Familiarize the student with the techniques of improving current business results.

### Study load

| Total learning time: 45h | Hours large group: | 45h | 100.00% |
## Content

1. **The Maritime Sector and Naval Construction**
   - **Learning time:** 3h
     - Theory classes: 3h
   - **Description:**
     1.2. Cycles of the Naval Construction Market.

2. **The ship's project**
   - **Learning time:** 10h
     - Theory classes: 8h
     - Guided activities: 2h
   - **Description:**
     2.1. Development of the project for construction.

3. **Production and control methodologies.**
   - **Production processes. Organization of the shipyards.**
   - **Learning time:** 10h
     - Theory classes: 8h
     - Guided activities: 2h
   - **Description:**
     3.1. The construction shipyard.
     3.2. Integral Construction Process. Main processes and flows.
     3.3. The ship as an aggregation of intermediate products: Materials, equipment, systems and painting.

4. **Constructive strategies of ships, platforms and oceanic artifacts.**
   - **Learning time:** 3h
     - Theory classes: 3h
   - **Description:**
     4.2. Planning and monitoring of the project. Critical points.
5. Technological processes associated with different construction strategies.

**Description:**
5.2. Armament Processes: Manufacture of tubes and modules. Assembly processes of systems, equipment and accommodation.
5.3. Functional integration Commissioning, testing, delivery and warranty.

**Learning time:** 10h
- Theory classes: 8h
- Guided activities: 2h


**Description:**
6.2. Repair and / or refit of ships and boats.
6.3. Repair of marine structures.

**Learning time:** 9h
- Theory classes: 7h
- Guided activities: 2h

**Qualification system**

The final qualification is the sum of the following partial qualifications:

\[ N_{final} = 0.3 \, N_{pf} + 0.4 \, N_{pp} + 0.3 \, N_{ac} \]

\( N_{final} \): final qualification
\( N_{pf} \): final test qualification
\( N_{pp} \): partial test qualification
\( N_{ac} \): continuous evaluation

Each test, of whatever type, must be passed with a grade of 5 out of 10 or higher. The parts that are exceeded are released until the final evaluation.

The partial and final tests consist of a part with questions about concepts associated with the learning objectives of the subject in terms of knowledge or understanding, and a set of application exercises.

The continuous evaluation consists in doing different activities, both individual and group, of cumulative and formative nature, made during the course.

**Regulations for carrying out activities**

It is mandatory to attend the evaluation activities and participate in the classes, activities and visits that take place during the course, will determine the continuous assessment note.
Bibliography

Basic:


