280805 - Project Management

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 732 - OE - Department of Management
Academic year: 2020
Degree: MASTER'S DEGREE IN NAVAL AND OCEAN ENGINEERING (Syllabus 2017). (Teaching unit Compulsory)
ECTS credits: 5
Teaching languages: English

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.
CB9. That students can communicate their conclusions and the knowledge and latest rationale underpinning to specialists and non-specialty clearly and unambiguously
CB6. Possess knowledge and understanding that provide a basis or opportunity to be original in the development and/or application of ideas, often in a research context.
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.

Specific:
CE15. Conocimientos de economía y de gestión de empresas del ámbito marítimo

Transversal:
CT3. TEAMWORK: Ability to work as a member of an interdisciplinry 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.
CT1. ENTREPRENEURSHIP AND INNOVATION: Knowing and understanding the organization of a company and the sciences that govern the activity; be able to understand the business rules and relationships between planning, industrial and commercial strategies, quality and profit.
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Know and understand the mechanisms that scientific research is based, as well as the mechanisms and instruments of transfer of results between different socio-economic actors involved in the processes of R + D + i.

CT2. SUSTAINABILITY AND SOCIAL COMMITMENT: Know and understand the complexity of economic and social phenomena typical of the welfare society, being able to relate welfare to globalization and sustainability; acquire skills to use in a balanced manner compatible technology, technology, economics and sustainability.

Teaching methodology

SESSION STRUCTURE
The structure of the sessions will include:
- Basic concepts, tools to use and examples (30 m).
- Work in teams: application of the tools to a given example, the same for all the teams. (50m)
- Presentation of the results of the work of the teams to the whole group (30m)
- Remarks and final instructions (10m)
Some of the session will include a talk of an expert. In this cases the structure of the session will be appropriately adapted.

ASSIGNMENTS
Assignments will refer to the application of the analysed tools to particular cases and situations.

Learning objectives of the subject

To be able to define and present the reason behind the development of a project
To be able to define and present the formal decisions to take before the development of a project
To be able to analyse the different aspects of a project
To have used a variety of project planning techniques
To be able to articulate key steps in project implementation
To be able to define and use control indicators and reports

Study load

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

### BLOCK 1. INTRODUCTION AND CONCEPTS

**Description:**
Projects and project management. Portfolio of projects. Why Project Management is important. The concept of Business Case and Project Charter. Stages of a project: Initiating; Planning; Executing; Monitoring and Controlling; and Closing. Standard methodologies in Project Management. Agile i SCRUM.

**Related activities:**
Definition of the main elements of the project of the course.

**Learning time:** 9h
**Practical classes:** 9h

### BLOCK 2. BUSINESS CASE AND PROJECT CHARTER

**Description:**

**Related activities:**
Development in project of the course of the elements presented in the block 2 of the content.

**Learning time:** 12h
**Practical classes:** 12h

### BLOCK 3. MANAGING AND EXECUTING PROJECTS

**Description:**
Detailed planning. Knowledge Areas to take into count: Integration; Scope; Time; Cost; Quality; Human Resource; Communications; Risk; Procurement; and Stakeholder. Documentation and procedures to define. Time graphs: PERT and GANT. Different project management software tools. Templates. Online tools for teamwork. Selecting the most appropriate tools. Examples of project execution: solutions adopted and tools selected.

**Related activities:**
Development in project of the course of the elements presented in the block 3 of the content.

**Learning time:** 12h
**Practical classes:** 12h
### BLOCK 4. MONITORING, CONTROLLING AND CLOSING PROJECTS

**Learning time:** 12h  
**Practical classes:** 12h

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<th>Related activities:</th>
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<td>Development in project of the course of the elements presented in the block 4 of the content.</td>
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### Qualification system

Continuous assessment, the final mark will come from the deliverables.

Final mark = 0.25 * deliverables block 1 + 0.25 * deliverables block 2 + 0.25 * deliverables block 3 + 0.25 * deliverables block 4

### Bibliography

**Basic:**

