280706 - Project Management

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 732 - OE - Department of Management
Academic year: 2019
Degree: MASTER'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT MANAGEMENT (Syllabus 2016). (Teaching unit Compulsory)
MASTER'S DEGREE IN THE MANAGEMENT AND OPERATION OF MARINE ENERGY FACILITIES (Syllabus 2016). (Teaching unit Compulsory)
ECTS credits: 5  Teaching languages: English

Coordinator: JORGE OLIVELLA NADAL

Opening hours

Timetable: Friday from 6:00 to 7:00PM

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 of social and ethical linked to the application of their knowledge and judgments.
Generical:
CG3MEM. Apply the acquired knowledge and problem solving environments
new or unfamiliar environments within broader contexts and
multidisciplinary being able to integrate this knowledge
CG5MEM. Develop, direct and manage engineering projects in the field of
marine engineering.

Transversal:
CT3. TEAMWORK: Being able to work in an interdisciplinary team, whether as a member or as a leader, with the aim
of contributing to projects pragmatically and responsibly and making commitments in view of the resources that are
available.
CT1b. ENTREPRENEURSHIP AND INNOVATION: Being aware of and understanding the mechanisms on which
scientific research is based, as well as the mechanisms and instruments for transferring results among socio-economic
agents involved in research, development and innovation processes.
CT2. SUSTAINABILITY AND SOCIAL COMMITMENT: Being aware of and understanding the complexity of the
economic and social phenomena typical of a welfare society, and being able to relate social welfare to globalisation
and sustainability and to use technique, technology, economics and sustainability in a balanced and compatible
manner.

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% |
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## Content

### BLOCK 1. INTRODUCTION AND CONCEPTS

**Learning time:** 29h  
Practical classes: 3h  
Guided activities: 6h  
Self study: 20h

**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 and SCRUM.

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

### BLOCK 2. BUSINESS CASE AND PROJECT CHARTER

**Learning time:** 32h  
Practical classes: 4h  
Guided activities: 8h  
Self study: 20h

**Description:**  

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

### BLOCK 3. MANAGING AND EXECUTING PROJECTS

**Learning time:** 32h  
Practical classes: 4h  
Guided activities: 8h  
Self study: 20h

**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.
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**BLOCK 4. MONITORING, CONTROLLING AND CLOSING PROJECTS**

<table>
<thead>
<tr>
<th>Learning time:</th>
<th>32h</th>
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<tbody>
<tr>
<td>Practical classes:</td>
<td>4h</td>
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<tr>
<td>Guided activities:</td>
<td>8h</td>
</tr>
<tr>
<td>Self study:</td>
<td>20h</td>
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</tbody>
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**Description:**

**Related activities:**
Development in project of the course of the elements presented in the block 4 of the content.

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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

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**Bibliography**

**Basic:**

