

Course guide

280706 - 280706 - Project Management

Last modified: 17/06/2024

Unit in charge: Barcelona School of Nautical Studies
Teaching unit: 732 - OE - Department of Management.

Degree: MASTER'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT MANAGEMENT (Syllabus 2016). (Compulsory subject).
MASTER'S DEGREE IN THE MANAGEMENT AND OPERATION OF MARINE ENERGY FACILITIES (Syllabus 2016). (Compulsory subject).

Academic year: 2024 **ECTS Credits:** 5.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: XAVIER CODINAS POCH

Others: Primer quadrimestre:
XAVIER CODINAS POCH - MGOIE, MNGTM

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

CE2-MNGTM. Metodologia de projectes.

CE5-MNGTM. Conocimientos de la gestión del personal a bordo. Dirección y gestión de personal en situaciones de crisis.

CE14-MNGTM. Lideratge i gestió de la direcció: influències, evolució i funcions. Capacitat d'utilització dels coneixements de lideratge i gestió.

CE20-MNGTM. (ENG) Capacidad para la gestión y dirección de empresas marinas.

CE23-MNGTM. Conocimientos y capacidad para aplicar una gestión eficaz de los recursos.

CE22-MNGTM. Coneixements i capacitat per aplicar les tècniques d'adopció de decisions.

CE16-MNGTM. Coneixements d'economia de la gestió de les empreses del sector marítim, el negoci marítim i la logística associada.

Generical:

CG9-MNGTM. Capacitat per organitzar i dirigir grups de treball multidisciplinaris en un entorn multilingüe, i de generar informes per a la transmissió de coneixements i resultats

CG15-MNGTM. (ENG) Capacidad para resolver problemas complejos y tomar decisiones con responsabilidad sobre bases científicas y tecnológicas en el ámbito de su especialidad

CG20-MNGTM. Capacitat per a la gestió i direcció d'empreses marines

CG19-MNGTM. Capacitat per desenvolupar els coneixements per a l'anàlisi i interpretació de mesuraments, càlculs, valoracions, taxacions, peritatges, estudis, informes i documents tècnics en l'àmbit de la seva especialitat

CG21-MNGTM. (ENG) Capacidad para realizar tareas de investigación, desarrollo e innovación en el ámbito de su especialidad

Transversal:

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.

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.

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.

Basic:

CB6. Possess knowledge and understanding that provide a basis or opportunity be original in the development and / or application of ideas, often in a research context.

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.

TEACHING METHODOLOGY

SESSION STRUCTURE

The structure of the sessions will include:

- Basic concepts, tools to use and examples.
- Work in teams: application of the tools to a given example, the same for all the teams.
- Presentation of the results of the work of the teams to the whole group.
- Remarks and final instructions.

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

Type	Hours	Percentage
Hours large group	45,0	90.00
Self study	5,0	10.00

Total learning time: 50 h

CONTENTS

Bloc 1. Introduction

Description:

Unit 1.1 Project management standards.

Unit 1.2 Phase Gate methods.

Unit 1.3 Agile methods and SCRUM.

Related activities:

Definition of the main elements of the project of the course.

Full-or-part-time: 17h

Theory classes: 3h

Practical classes: 6h

Self study : 8h

Bloc 2. Requirements definition

Description:

Unit 2.1 Analysis of a problem (A3 tool).

Unit 2.2 Context: actors, processes and strategic needs.

Unit 2.3 Elements of the Statement of Work.

Related activities:

Development in project of the course of the elements presented in the block 2 of the content.

Full-or-part-time: 16h

Theory classes: 4h

Practical classes: 8h

Self study : 4h

Bloc 3. Proposal

Description:

Unit 3.1 Definition and analysis of business options.

Unit 3.2 Cost and financial performance analysis.

Unit 3.3 Elements of the Business Case and the Project Charter.

Related activities:

Development in project of the course of the elements presented in the block 3 of the content.

Full-or-part-time: 16h

Theory classes: 4h

Practical classes: 8h

Self study : 4h

Bloc 4. Execution planning

Description:

Unit 4.1 Work Breakdown Structure and scheduling definition.

Unit 4.2 Risk, cost and execution control management.

Unit 4.3 Project Management Plan elements.

Related activities:

Development in project of the course of the elements presented in the block 4 of the content.

Full-or-part-time: 16h

Theory classes: 4h

Practical classes: 8h

Self study : 4h

ACTIVITIES

Project 1. Requirements definition

Description:

The students will define the requirements of a project working in teams. One of them will coordinate the team.

Full-or-part-time: 20h

Self study: 20h

Proposal

Description:

The students will define the requirements of a project working in teams.

Full-or-part-time: 20h

Self study: 20h

Execution planning

Description:

The students will prepare an execution plan of the project.

Full-or-part-time: 20h

Self study: 20h

GRADING SYSTEM

ASSESSMENT

Deliverables of activities 1 to 4: 10% each.

Presence is required.

Mid-term exam: 20%

Final exam: 40%

The final exam will include questions related to activities 1 to 4. If the answers show that the student has little knowledge of the content of the deliverables, the individual grades corresponding to these deliverables will be lowered.



BIBLIOGRAPHY

Basic:

- Zwikael, Ofer; Smyrk, John. Project management for the creation of organisational value [on line]. London: Springer, 2011 [Consultation: 04/07/2016]. Available on: <http://dx.doi.org/10.1007/978-1-84996-516-3>. ISBN 9781849965163.
- Lester, Albert. Project management, planning and control : managing engineering, construction and manufacturing projects to PMI, APM and BSI standards [on line]. 5th ed. Amsterdam: Elsevier/Butterworth-Heinemann, 2007 [Consultation: 01/09/2022]. Available on: <https://www.sciencedirect-com.recursos.biblioteca.upc.edu/book/9780750669566/project-management-planning-and-control>. ISBN 9780750669566.
- A Guide to the project management body of knowledge (PMBOK® guide) [on line]. 6th ed. Newtown Square: Project Management Institute, [2017] [Consultation: 30/05/2022]. Available on: <https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=5180849>. ISBN 9781628253900.