

# Course guide 230854 - PM - Project Management

Last modified: 19/06/2024

Unit in charge: Barcelona School of Telecommunications Engineering

**Teaching unit:** 732 - OE - Department of Management.

Degree: MASTER'S DEGREE IN ENGINEERING PHYSICS (Syllabus 2018). (Compulsory subject).

Academic year: 2024 ECTS Credits: 3.0 Languages: English

#### **LECTURER**

Coordinating lecturer: VICENÇ FERNANDEZ ALARCON

**Others:** Primer quadrimestre:

JIARUI YIN - 10

#### **REQUIREMENTS**

No requirements

#### **DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES**

#### **Basic:**

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

CB7. Students should know how to apply the knowledge acquired and their problem-solving ability in new or little-known environments within broader (or multidisciplinary) contexts related to their area of ¿¿study.

# **TEACHING METHODOLOGY**

The teaching methodology of this course has 4 parts:

- \* Lecture: Lecturers present concepts, principles and techniques, with the active participation of students.
- \* Problem Based Learning: Lecturers and students resolve exercises and standard problems through specific techniques related to the theoretical contents and principles of the course.
- \* Reading Based learning: Students read and discuss current scientific papers related to the theoretical contents and principles of the course.
- \* Self-study: Students diagnose their learning needs, in collaboration with the lecturers, and plan their own learning process.

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# **LEARNING OBJECTIVES OF THE SUBJECT**

The course aims to introduce concepts and techniques for efficient project management. For this purpose, the following specific objectives are defined:

- \* Define the overall aim and specific objectives of a project.
- \* Define the object, scope, stakeholders and specifications of a project.
- st To plan the project based on three dimensions: Time, Resources, and Quality.
- \* Apply time planning techniques.
- \* Develop an economic budget.
- \* Define quality criteria.
- \* Develop a risk plan.
- \* Monitor a project.
- \* Apply corrective actions to a project.
- \* Communicate the status and results of a project throughout its life.
- \* Close a project.

#### **STUDY LOAD**

Туре	Hours	Percentage
Self study	53,0	68.83
Hours large group	24,0	31.17

Total learning time: 77 h

#### **CONTENTS**

# **Module 1: Project Planning**

#### **Description:**

Scope Management

Time Management

Cost Management

Quality Management

People Management

Communication Management

Risk Management

# Related activities:

Individual and Group Activities

Group Project

Examen Final

# Related competencies:

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

CB7. Students should know how to apply the knowledge acquired and their problem-solving ability in new or little-known environments within broader (or multidisciplinary) contexts related to their area of ¿¿study.

**Full-or-part-time:** 38h Theory classes: 12h Self study: 26h

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### **Module 2: Project Implementation and Monitoring**

#### Description:

Scope Management

Time Management

Cost Management

Quality Management

People Management

Communication Management

Risk Management

#### **Related activities:**

Individual and Group Activities

Group Project

Final Exam

#### Related competencies:

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

CB7. Students should know how to apply the knowledge acquired and their problem-solving ability in new or little-known environments within broader (or multidisciplinary) contexts related to their area of ¿¿study.

Full-or-part-time: 26h Theory classes: 8h Self study: 18h

#### **Module 3: Project Closure**

#### **Description:**

Expectation management

Communication

Team management

### **Related activities:**

Individual and Group Activities

Group Project

Final Exam

## Related competencies:

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

CB7. Students should know how to apply the knowledge acquired and their problem-solving ability in new or little-known environments within broader (or multidisciplinary) contexts related to their area of ¿¿study.

Full-or-part-time: 13h Theory classes: 4h Self study: 9h

#### **GRADING SYSTEM**

The final grade depends on the following elements:

- \* 40%, Individual and Group Activities during the course
- \* 30%, Group Project
- \* 30%, Final Exam (revaluated part)

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# **EXAMINATION RULES.**

The final exam will be individual and without supporting material.

# **BIBLIOGRAPHY**

#### **Basic**

- A guide to the project management body of knowledge: PMBOK guide [on line]. 7th ed. Newtown Square, Pennsylvania: Project Management Institute, 2021 [Consultation: 04/03/2025]. Available on: <a href="https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pq-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.edu/lib/upcatalunya-ebooks/detail.action?pd-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recursos.biblioteca.upc.upcatalunya-ebooks/detail.action?pd-origsite=primo&docID=6636">https://ebookcentral-proquest-com.recurso

# **RESOURCES**

#### Other resources:

Slides and current articles on the various topics of the course.