



Course guide

230854 - PM - Project Management

Last modified: 14/12/2023

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: 2023 **ECTS Credits:** 3.0 **Languages:** English

LECTURER

Coordinating lecturer: Consultar aquí / See here:
<https://telecos.upc.edu/ca/estudis/curs-actual/professorat-responsables-coordinadors/responsables-assignatura>

Others: Consultar aquí / See here:
<https://telecos.upc.edu/ca/estudis/curs-actual/professorat-responsables-coordinadors/professorat-assignat-idioma>

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.



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.
- * 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

Type	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

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)



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]. 6th ed. Newtown Square, Pennsylvania: Project Management Institute, 2017 [Consultation: 08/04/2021]. Available on: <https://ebookcentral.proquest.com/lib/upcatalunya-ebooks/detail.action?docID=5180849>. ISBN 1628251840.

RESOURCES

Other resources:

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