

## SUBJECT TEACHING GUIDE

M1215 - Projects

Master's Degree in Industrial Engineering

Academic year 2022-2023

1. IDENTIFYING DATA					
Degree	Master's Degree in Industrial Engineering			Type and Year	Compulsory. Year 1
Faculty	School of Industrial Engineering and Telecommunications				
Discipline	Installations Installations, Plants and Complementary Buildings				
Course unit title and code	M1215 - Projects				
Number of ECTS credits allocated	5	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. TRANSPORTES Y TECNOLOGIA DE PROYECTOS Y PROCESOS				
Name of lecturer	MARIA DEL CARMEN RUIZ PUENTE				
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Other lecturers	BERNARDO ARGOS BARRIOCANAL				

3.1 LEARNING OUTCOMES
- To identify the multidisciplinary approach involved in the realization of industrial engineering projects.
- To identify and define the scope, tasks and resources needed to develop an engineering project.
- To identify and define the key factors of project management.
- To know and apply the procedures and tools of project management.
- To know and apply the features and methods of project leadership.

#### 4. OBJECTIVES

- To distinguish the types of projects and their stages of performance.
- To analyse the feasibility of projects.
- To identify the role of the project director within the organization and project team.
- To outline and apply a management methodology to achieve project success.
- To know and apply management procedures of costs, resources, timeline, risks and procurement.
- To know and apply existing tools for project management.
- To cope with the technical assistance skills and consultancy works derived from industrial projects.
- To know and elaborate reports of the project.

#### 6. COURSE ORGANIZATION

##### CONTENTS

1	Life cycle of the project.
2	Feasibility of the project.
3	Project management.
4	Integral management of projects.
5	Tools of management.
6	Building up and control of industrial projects.
7	Building up and control of Research&Innovation projects.

#### 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Written exam	Written exam	Yes	Yes	50,00
Three practical deliverables	Others	No	Yes	50,00
TOTAL				100,00
Observations				
In case of sanitary alert due to COVID-19, the assessment of the subject will be equally done on-line.				
Observations for part-time students				
Partial-time students can take the written exam of the subject on the official dates of the calendar.				

## 8. BIBLIOGRAPHY AND TEACHING MATERIALS

### BASIC

De Cos, M., 1995; Teoría General del Proyecto. Ingeniería de Proyectos/Project Engineering. Síntesis, Madrid.

De Cos, M., 1995; Teoría General del Proyecto. Dirección de Proyectos/Project Management. Síntesis, Madrid.

Project Management Institute (PMI), 1998; Guía de los Fundamentos de la Dirección de Proyectos. Traducción de "A Guide to the Project Management Body of Knowledge". PMI, Upper Darby (PA), 1996. Traducida por la Asociación Española de Ingeniería de Proyectos AEIPRO.

Heredia, R, 1995; Dirección Integrada de Proyectos: "Project Management". Universidad Politécnica de Madrid.

Kerzner, H., 2001; Project Management: A Systems Approach to Planning, Scheduling and Controlling. Van Nostrand Reinhold, New York.

Kerzner, H., 2006; Project Management: Case Studies. John Wiley & Sons, Inc., New Jersey.