

## SUBJECT TEACHING GUIDE

G669 - Management of Software Projects

Degree in Computer Systems Engineering

Academic year 2022-2023

1. IDENTIFYING DATA					
Degree	Degree in Computer Systems Engineering			Type and Year	Optional. Year 4
Faculty	Faculty of Sciences				
Discipline	Subject Area: Software Engineering Mention in Software Engineering				
Course unit title and code	G669 - Management of Software Projects				
Number of ECTS credits allocated	6	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. INGENIERÍA INFORMÁTICA Y ELECTRÓNICA				
Name of lecturer	CARLOS BLANCO BUENO				
E-mail	carlos.blanco@unican.es				
Office					
Other lecturers	MARIA VICTORIA LLAMAZARES LOPEZ				

3.1 LEARNING OUTCOMES
- Apply the main techniques and standards to plan software projects.
- Using methods and techniques for the management, control and monitoring of a software development project.
- Knowing how to estimate size, effort and cost of a software project.
- Perform proper planning, analysis and control of risks in a software development project and risks in an information system in operation.

#### 4. OBJECTIVES

- Knowing how to plan and manage software projects.
- Knowing how to carry out estimations of size, effort and costs in software projects.
- Knowing how to identify and manage risks in software projects.
- Be capable of planning and monitoring a project through a software tool.

#### 6. COURSE ORGANIZATION

##### CONTENTS

1	PROJECT MANAGEMENT FUNDAMENTALS. - Project Management Body of Knowledge (PMBOK). - Basic concepts. Process Groups. Work areas. Interactions between processes.
2	PROJECT INTEGRATION MANAGEMENT. - Starting a project. Project charter. - Project management plan. - Direct and manage project execution. - Monitor and control project work and changes. - Close project.
3	PROJECT SCOPE MANAGEMENT. - Define scope. - Create WBS. - Verify and control scope.
4	PROJECT TIME MANAGEMENT. - Define, sequence and estimate (resources and durations) activities. - Develop schedule: PERT and CPMCD methods.
5	PROJECT COST MANAGEMENT. - Estimate costs and determine budget. - Control costs. EVM.
6	PROJECT RISK MANAGEMENT. - Plan risk management. - Identify risk, perform qualitative and quantitative analysis and plan risk responses. - Monitor and control risks.

#### 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Continuous evaluation	Work	No	Yes	100,00
TOTAL				100,00
Observations				
Observations for part-time students				
Part-time students can achieve all the theoretical and practical activities by distance working. In this way, they can establish their working hours according to their professional and personal constraints.				

## 8. BIBLIOGRAPHY AND TEACHING MATERIALS

### BASIC

Guía PMBOK (Project Management Body of Knowledge) 6ª edición. Project Management Institute (PMI), 2017