

SUBJECT TEACHING GUIDE

G67 - Projects: Conception, Development and Tools

Double Degree in Physics and Mathematics
Degree in Physics

Academic year 2021-2022

1. IDENTIFYING DATA					
Degree	Double Degree in Physics and Mathematics Degree in Physics			Type and Year	Compulsory. Year 5 Compulsory. Year 4
Faculty	Faculty of Sciences				
Discipline	Subject Area: Projects: Conception, Development and Tools Module: Orientation				
Course unit title and code	G67 - Projects: Conception, Development and Tools				
Number of ECTS credits allocated	6	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. FISICA MODERNA				
Name of lecturer	JONATAN PIEDRA GOMEZ				
E-mail	jonatan.piedra@unican.es				
Office					
Other lecturers					

3.1 LEARNING OUTCOMES

- Be able to make a proposal of scientific / technological project and know how to analyse its viability.
- Estimate the needs of human and material resources for a project.
- Apply basic tools and procedures for the control and monitoring of a project.
- Know the quality control mechanisms to be applied in a project.
- Be able to prepare and present the results of a project in a realistic and positive manner.
- Know how to organise a team of suitable work to undertake a project.
- Present properly, both orally and in writing, the approach and the results of a project, in particular the individual work therein.
- Know how to evaluate the successes, problems and risks that arise in a project, and be able to define a strategy for improvement from them.
- Know how to assess the social and environmental impact, and identify ethical issues related to the realisation and implementation of a project.

4. OBJECTIVES

- Know the context of scientific projects and scientific and technological projects.
- Differentiate elements in the design of a project.
- Establish an organisation of individual and group work.
- Use support tools.
- Define indicators of progress, quality and risk in a project.
- Present and defend a proposal and the results of a project.
- Practical approach in individual examples and group projects.
- Analyze the social and environmental impact of projects.

6. COURSE ORGANIZATION

CONTENTS	
1	Projects: Introduction, Lifecycle, Tools, Organization, Quality Promotion, Impact.
2	Development of an individual project.
3	Development of a group project.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Exam: written resolution of practical cases.	Written exam	Yes	Yes	20,00
Project raised by the student and submitted by him or herself.	Work	No	Yes	50,00
Group project developed and presented in open session.	Work	No	No	30,00
TOTAL				100,00
Observations				
<p>The deadline for submission of individual projects may be extended for exceptional reasons (eg. students on Erasmus). Similarly, you can opt for a flexible formula to participate in the drafting group.</p> <p>In the case of having more than 30% of the course positively evaluated based on the presented projects, the written exam can be recovered by another written exam.</p>				
Observations for part-time students				
As far as possible, and in accordance with the professor, we will try to facilitate the engagement of the student at partial time.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Las presentaciones utilizadas en las clases presenciales se encuentran disponibles en la plataforma MOODLE.