

School of Industrial Engineering and Telecommunications

SUBJECT TEACHING GUIDE

G860 - Fluid Mechanics

Degree in Electrical Engineering

Academic year 2023-2024

1. IDENTIFYING DATA								
Degree	Degree in Electrical Engineering			Type and Year	Compulsory. Year 2			
Faculty	School of Industrial Engineering and Telecommunications							
Discipline	Subject Area: Thermofluid Mechanics Module in Common with the Industrial Branch							
Course unit title and code	G860 - Fluid Mechanics							
Number of ECTS credits allocated	6	Term Semest		Semeste	ster based (2)			
Web								
Language of instruction	Spanish	English Friendly	No	Mode of o	delivery	Face-to-face		

Department	DPTO. INGENIERIA ELECTRICA Y ENERGETICA	
Name of lecturer	SEVERIANO FIDENCIO PEREZ REMESAL	
E-mail	severiano.perez@unican.es	
	sevenario.perez@uritcari.es	
Office	E.T.S. de Ingenieros Industriales y de Telecomunicación. Planta: - 3. DESPACHO PROFESOR (S3026)	
Other lecturers	JORGE TOMAS CUELI LOPEZ	
	JOSE SALMON GARCIA	

3.1 LEARNING OUTCOMES

- Students will be able to apply the concepts of fluid mechanics necessary to carry out engineering projects

- It will be able to apply the concepts of fluid mechanics necessary for the design and improvement of hydraulic machinery

4. OBJECTIVES

Acquiring knowledge of the fundamentals of fluid mechanics to solve technical problems

Apply the theoretical basis of fluid mechanics to hydraulic machines

Knows the operating principles, structure and use of hydraulic machines



School of Industrial Engineering and Telecommunications

6. CO	URSE ORGANIZATION
	CONTENTS
1	Introduction to fluid mechanics hydrostatic Kinematics and Dynamics of fluids Calculation of pipes and channels External flow, Water hammer and cavitation

7. ASSESSMENT METHODS AND CRITERIA						
Description	Туре	Final Eval.	Reassessn	%		
Classroom assessments	Work	No	Yes	40,00		
Laboratory practices	Others	No	No	10,00		
Examination of practical theoretical contents of the subject	Written exam	Yes	Yes	50,00		
TOTAL 100,00						
Observations						
Students who renounce continuous assessment can ma (theory, problems and laboratory exam). The remote evaluation of the works, practical laboratory alert by COVID-19 making it impossible to carry out the No grade earned for subsequent courses is saved. It is expected that in the event that the health and / or e	exercises and written tests is foreseen, in the evaluation in person.	e case of a nev	v health			

person, this will be done through the Moodle platform. To do this, students must have a computer and internet connection on the day of the exam.

Observations for part-time students

Part-time students who do not attend classes will be assessed for the entire subject in ordinary and extraordinary calls (theory, problems and laboratory exam)

8. BIBLIOGRAPHY AND TEACHING MATERIALS	
BASIC	
Mecánica de Fluidos y Máquinas Hidráulicas; Claudio Mataix; Ed. Oxford	
Ingeniería Fuidomecánica; N. Garcia Tapia; Universidad de Valladolid	
Mecánica de Fluidos e Hidráulica; R.V. Giles; Ed. McGrawhill	
Mecánica de Fluidos Aplicada; R. Mott; Ed. Prentice Hall	
Mecánica de Fluidos; A. Crespo; Ed. Thomson	
Mecánica de Fluidos; F. White; Ed. McGrawhill	

UC

School of Industrial Engineering and Telecommunications