## m

Mondragon Unibertsitatea Goi Eskola Politeknikoa Escuela Politécnica Superior

Course: 2024 / 2025 - Course planning

[GJJ	205] MATERIAL STRI	ENGTH AND	ELASTICIT	ΓY			
	GENERAL IN	FORMATION					
Studies DEGREE IN MECH	HATRONICS ENGINEERING	Subject	?				
Semester 1	Course 3	Mention / Field of					
Character COMPULSORY		specialisation					
Plan 2022	Modality Face-to-face	Language	EUSKARA/CAS	TELL	ANO/E	ENGLISH	
Credits 4,5	Hours/week 3.77	Total hours	67.8 class hours total hours	s + 44	.7 non	-class hou	urs = <u>112.5</u>
	2030 AGENI	DA GOALS					
B) distant distance Constant di							
	PROFES	SSORS					
MATEOS HEIS, MODESTO							
ARETXABALETA RAMOS, LA	URENTZI						
	REQUIRED PREVIO	OUS KNOWLED	GE				
Subjec		Knowle	edge				
PHYSICS I (No previous kno			vledge	e requi	ired)		
	LEARNING	RESULTS					
LEARNING RESULTS				кс	SK	AB	ECTS
<b>GJR302</b> - To apply the fundamentals and principles of elasticity and resistance of materials <b>G-RTR1</b> - To develop interdisciplinary projects specific to their specialty and of gradual complexity, - becoming aware of respect for human rights and fundamental rights, and analyzing and assessing the impact of the proposed solutions on the SDGs - to acquire and/or apply basic, advanced and/or avant-garde, demonstrating the ability to work in multidisciplinary teams and/or undertake further studies with a bigh degree of autonomy.					x	x	3,78 0,4
<b>G-RTR2</b> - To express information, ideas and the arguments that support them in an orderly, clear and coherent manner, orally and in writing, based on quality information, self-made or obtained from different sources, using inclusive and non-discriminatory language					x		0,32
KC: Knowledge or Content / SK: Skills / AB: Ak	hilities					Total:	4,5
	0000						

1. Introduction

- 2. Stress and deformation. Introduction to design
- 3. Axial deformation
- 4. Beam bending
- 5. Torsion

## LEARNING RESOURCES AND BIBLIOGRAPHY

## Learning resources

[!] Transparencias de la asignatura

[!] Laboratorios

[!] Plataforma Moodle

[!] Proyección de videos

[!] Realización de prácticas en laboratorio

Bibliography

Craig Roy. R. Jr.; Mechanics of Materials; John Wiley & Sons, Inc; 3rd. Ed., 2011

Craig Roy R. Jr.; Mecánica de Materiales; CECSA ed., 2ª ed., 2002