

m Mondragon Unibertsitatea Goi Eskola Politeknikoa Escuela Politécnica

		GEN	ERAL INI	FORMATION				
Studies	DEGREE IN INDU ENGINEERING	STRIAL ORGANIZAT	ION	Subject	?			
Semester Character		Course 3		Mention / Field of specialisation				
	2022	Modality Face	e-to-face	Language	EUSKARA/CAS		NGLISH	
Credits		Hours/week 3			54 class hours + hours			
TT WORK AND 9 INDUSTRY, INVANTOR		203	30 AGENI	DA GOALS				
AND GROWTH								
			PROFES	SORS				
EREÑO INC	CERA, ANA MONS				GE			
	Subjec				Knowle	edge		
(No	o specific previous s	,			lo previous know	ledge requii/	red)	
EARNING RESU	II TS	LE	ARNING	RESULTS		KC SK	AB	ECTS
<b>DR309</b> - To gene		ough the identification	and modeli	ng of data to improve	e the	x		2,56
RTR1 - To devel ecoming aware of pact of the prop	op interdisciplinary of respect for humar osed solutions on t	projects specific to the rights and fundamen he SDGs - to acquire a to work in multidiscip	ital rights, an and/or apply	nd analyzing and ass v basic, advanced an	essing the d/or	x		0,2
th a high degree RTR2 - To expre herent manner,	e of autonomy ess information, idea orally and in writing	as and the arguments g, based on quality info riminatory language	that suppor	t them in an orderly,	clear and	x		0,24
							Total:	3
-	ntent / SK: Skills / AB: Al	bilities						
NAEE LEARNII NAE03 - Knowle ne forefront of the	dge and understand	ding: Sufficient knowle	edge of their	branch of engineerir	ng, including som	e knowledge	e at	0,45
		pility to choose and ap	ply relevant	modelling and analy	tical methods.			0,3
NAE09 - Enginee	ering projects: Unde	erstanding of the differ	ent methods	s and ability to use th	iem.			0,39
NAE12 - Resear	ch & innovation: Te	chnical and lab compe	etences.					0,39
		ineering: Understandi	- · ·		chniques and the	eir limitations	i.	0,3
		To work effectively, be		•				0,39
nd society in ger	neral.	To use different meth		-	-	-	-	0,39
		Demonstrate that the ement and understand			actices and proje	ect manager	nent,	0,39
							Total:	3
		SECOND	ARY LEA	RNING RESULT	S			
1RGO390 (1 s	em)							
LEARNING AC	TIVITIES				СН	NCH	Th	I
	xperience/challenge	s, reports, presentatio es/case studies/experi			1 h.	1 h.	21	1.
EVALUATION	SYSTEM		W	MAKE-UP MECH				
computer exerc	completion of exercises, simulation exercises, challenge		75%		(No mecha	anisms)		
exercises. term								





computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems

CH - Class hours: 1 h. NCH - Non-class hours: 1 h. TH - Total hours: 2 h.

1RG0391 (1 sem)					
LEARNING ACTIVITIES			СН	NCH	ТН
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experin individually and/or in teams			1 h.	1 h.	2 h.
EVALUATION SYSTEM	W	MAKE-UP MECHAN	ISMS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	75%		(No mech	anisms)	
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	25%				
H - Class hours: 1 h. CH - Non-class hours: 1 h. H - Total hours: 2 h.					
RG0325 [!] APLICA técnicas y herramientas para el t	tratamient	o de la información y la	a gestión del	conocimient	0
LEARNING ACTIVITIES			СН	NCH	тн
Computer simulation exercises, individually and/or in teams			15 h.	5 h.	20 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects			8 h.	4 h.	12 h.
EVALUATION SYSTEM	w	MAKE-UP MECHAN	ISMS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%	Reports on the compl exercises, simulation projects, challenges a	exercises, la	boratory exerc	· ·

CH - Class hours: 23 h. NCH - Non-class hours: 9 h. TH - Total hours: 32 h.

1RG0392 (1 sem)					
LEARNING ACTIVITIES			СН	NCH	тн
Development and writing of records, reports, presentatior projects/work experience/challenges/case studies/experir individually and/or in teams			1 h.		1 h.
EVALUATION SYSTEM	W	MAKE-UP MECHAN	ISMS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	75%	(No mechanisms)			



25%



Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems

CH - Class hours: 1 h. NCH - Non-class hours: 0 h. TH - Total hours: 1 h.

## 1RGO394 (1 sem) **LEARNING ACTIVITIES** СН NCH ΤН Development and writing of records, reports, presentations, audiovisual material, etc. on 2 h. 1 h. 3 h. projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams MAKE-UP MECHANISMS **EVALUATION SYSTEM** w 75% Reports on the completion of exercises, case studies, (No mechanisms) computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems Presentation and defence of exercises, case studies, 25% computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.

1RG0393 (1 sem)						
LEARNING ACTIVITIES			СН	NCH	ТН	
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experi individually and/or in teams		-	2 h.	1 h.	3 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHAN	ISMS			
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	75%		(No mech	anisms)		
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	25%					
CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.						

 RG0324 [!] GENERA modelos de los datos de una organización para gestionar los procesos de una organización

 LEARNING ACTIVITIES
 CH
 NCH
 TH

 Conducting tests, giving presentations, presenting defences, taking examinations and/or doing
 2 h.
 2 h.
 4 h.



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					Superior
Carrying out/resolving projects/challenges/cases, etc. to p interdisciplinary contexts, real and/or simulated, individua		6 h.	2 h.	8 h.	
Presentation by the teacher in the classroom, in participa procedures associated with the subjects	6 h.		6 h.		
Carrying out exercises and solving problems individually	and/or in te	eams	10 h.	4 h.	14 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANI	SMS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	50%	Individual written and/ coding/programming t		or individual	
Individual written and/or oral tests or individual coding/programming tests	50%				
CH - Class hours: 24 h. NCH - Non-class hours: 8 h. TH - Total hours: 32 h.					

## CONTENTS

1- Introduction to databases2- Data modeling - ER Model3- Normalization of data - Relational Model4- Crea tion of database system - Ms Access5- Exploitation of data - queries

LEARNING RESOURCES AND BIBLIOGRAPHY					
Learning resources	Bibliography				
[!] Apuntes de la asignatura	(No bibliography)				
[!] Plataforma Moodle					

[!] Presentaciones en clase