Goi Eskola Politeknikoa Escuela Politécnica

		GENERAL IN	FORMATION				
Studies		NGINEERING IN DOGY IN INDUSTRIAL PROCESS	Subject MAT	HEMATICS			
Semester	1	Course 2	Mention / Field of				
Character	BASIC TRAINI	NG	specialisation				
	2022	Modality Face-to-face	Language EUS	KARA			
Credits	6	Hours/week 3.22	Total hours 58 cl hour		92 non-cla	iss hours	= <u>150 tot</u>
		2030 AGEN	DA GOALS				
WORK AND BE GEOWTH CONTRACT AND ADDREASTRUCTURE							
		PROFE	SSORS				
LIZARRIBA	R MORAIZ, JA	TSU					
		REQUIRED PREVI	OUS KNOWLEDGE				
	Sub	ojects		Knowle	dge		
(No	o specific previo	us subjects required)	(No pre	evious know	ledge requi	ired)	
		LEARNING					
ARNING RESU					кс ѕк	AB	ECTS
		problems in the field of engineering u	using differential and integra	al		x	5,4
RTR1 - To deve		nary projects specific to their specialty			x		0,36
RTR1 - To deve coming aware o bact of the prop ant-garde, dem h a high degree RTR2 - To expre nerent manner,	lop interdisciplin of respect for hu posed solutions of onstrating the al e of autonomy ess information, orally and in wr	nary projects specific to their specialty man rights and fundamental rights, a on the SDGs - to acquire and/or appl bility to work in multidisciplinary team ideas and the arguments that suppo iting, based on quality information, s	and analyzing and assessir ly basic, advanced and/or ns and/or undertake further rt them in an orderly, clear	studies	x x		0,36
RTR1 - To deve coming aware of pact of the prop ant-garde, dem h a high degree RTR2 - To expre herent manner, urces, using inc	lop interdisciplir of respect for hu bosed solutions of onstrating the al e of autonomy ess information, orally and in wr clusive and non-	hary projects specific to their specialty man rights and fundamental rights, a on the SDGs - to acquire and/or appl bility to work in multidisciplinary team ideas and the arguments that suppo iting, based on quality information, so discriminatory language	and analyzing and assessir ly basic, advanced and/or ns and/or undertake further rt them in an orderly, clear	studies		Total:	
RTR1 - To deve coming aware of pact of the prop ant-garde, dem th a high degree RTR2 - To expre herent manner, urces, using inc	lop interdisciplin of respect for hu posed solutions of onstrating the al e of autonomy ess information, orally and in wr	hary projects specific to their specialty man rights and fundamental rights, a on the SDGs - to acquire and/or application bility to work in multidisciplinary team ideas and the arguments that suppo iting, based on quality information, so discriminatory language B: Abilities	and analyzing and assessir ly basic, advanced and/or ns and/or undertake further rt them in an orderly, clear	studies		Total:	0,24
RTR1 - To deve coming aware of pact of the prop ant-garde, dem th a high degree RTR2 - To expre herent manner, urces, using inco : Knowledge or Con	lop interdisciplin of respect for hu oosed solutions of onstrating the al e of autonomy ess information, orally and in wr clusive and non-	hary projects specific to their specialty man rights and fundamental rights, a on the SDGs - to acquire and/or application bility to work in multidisciplinary team ideas and the arguments that suppo iting, based on quality information, so discriminatory language B: Abilities	and analyzing and assessir ly basic, advanced and/or ns and/or undertake further rt them in an orderly, clear elf-made or obtained from	studies		Total:	0,24
RTR1 - To deve coming aware of pact of the prop ant-garde, dem th a high degree RTR2 - To expre herent manner, urces, using income <i>Knowledge or Col</i>	lop interdisciplir of respect for hu bosed solutions of onstrating the al e of autonomy ess information, orally and in wr clusive and non- ntent / SK: Skills / A	hary projects specific to their specialty man rights and fundamental rights, a on the SDGs - to acquire and/or application bility to work in multidisciplinary team ideas and the arguments that suppo iting, based on quality information, so discriminatory language B: Abilities	and analyzing and assessir ly basic, advanced and/or ns and/or undertake further rt them in an orderly, clear elf-made or obtained from	studies		Total:	0,24 6
RTR1 - To deve coming aware of pact of the prop ant-garde, dem th a high degree RTR2 - To expre herent manner, urces, using inco <i>Knowledge or Col</i> (1 S (LEARNING AC Development a	lop interdisciplir of respect for hu posed solutions of onstrating the al- e of autonomy ess information, orally and in wr clusive and non- ntent / SK: Skills / A em) CTIVITIES and writing of rece experience/challe	hary projects specific to their specialty man rights and fundamental rights, a on the SDGs - to acquire and/or application bility to work in multidisciplinary team ideas and the arguments that suppo iting, based on quality information, so discriminatory language B: Abilities	and analyzing and assessir ly basic, advanced and/or ns and/or undertake further int them in an orderly, clear elf-made or obtained from ARNING RESULTS	ng the studies and different	<i>x</i>		0,24 6
RTR1 - To deve coming aware of pact of the prop ant-garde, dem th a high degree RTR2 - To expre herent manner, urces, using income <i>Knowledge or Col</i> IRGC290 (1 s LEARNING AC Development a projects/work e	em)	ary projects specific to their specialty man rights and fundamental rights, a on the SDGs - to acquire and/or application bility to work in multidisciplinary team ideas and the arguments that suppo- iting, based on quality information, s discriminatory language B: Abilities SECONDARY LEA	and analyzing and assessir ly basic, advanced and/or ns and/or undertake further int them in an orderly, clear elf-made or obtained from ARNING RESULTS	ng the studies and different	X NCH	Tł	0,24 6
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RGC201 [!] Analiza y resuelve problemas físicos, sistemas eléctricos y mecánicos complejos mediante el cálculo integral, series de Fourier y la transformada de Laplace

LEARNING ACTIVITIES	СН	NCH	ТН
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	4 h.		4 h.
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in		17 h.	17 h.



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interdisciplinary contexts, real and/or simulated, individually and/or in teams Computer simulation exercises, individually and/or in teams Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects			2 h. 15 h.	2 h.	4 h. 15 h.
Carrying out exercises and solving problems individually and/or in teams			11 h.	34 h.	45 h.
EVALUATION SYSTEM	W	MAKE-UP MECHAN	IISMS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	20%		(No mech	anisms)	
Individual written and/or oral tests or individual coding/programming tests	80%				
CH - Class hours: 32 h. NCH - Non-class hours: 53 h. TH - Total hours: 85 h.					

1RGC294 (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 EVALUATION SYSTEM			5	3 h.	3 h.	
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	100%	(1	No mecha	anisms)		
CH - Class hours: 0 h. NCH - Non-class hours: 3 h. TH - Total hours: 3 h.						

1RGC292 (1 sem)						
LEARNING ACTIVITIES			СН	NCH	ТН	
Carrying out/resolving projects/challenges/cases, etc. to p interdisciplinary contexts, real and/or simulated, individua			2 h.	1 h.	3 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 CH - Class hours: 2 h.	100%		(No mech	anisms)		
NCH - Non-class hours: 1 h. TH - Total hours: 3 h.						
1RGC291 (1 sem)						

LEARNING ACTIVITIES	СН	NCH	ТН	
Development and writing of records, reports, presentations, audiovisual material, etc. on		3 h.	3 h.	
projects/work experience/challenges/case studies/experimental investigations carried out				

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Superior					
individually and/or in teams					
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%		(No mech	anisms)	
CH - Class hours: 0 h. NCH - Non-class hours: 3 h. TH - Total hours: 3 h.					
1RGC293 (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				3 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	100%		(No mech	anisms)	
CH - Class hours: 0 h. NCH - Non-class hours: 3 h. TH - Total hours: 3 h. RGC202 [!] Aplica los conocimientos de las matemáti	icas para l	a resolución de proble	emas de varia	as variables	
LEARNING ACTIVITIES			СН	NCH	тн
Conducting tests, giving presentations, presenting defend	es, taking e	examinations and/or doi	ing ^{4 h.}		4 h.
checkpoints Carrying out/resolving projects/challenges/cases, etc. to p interdisciplinary contexts, real and/or simulated, individua				10 h.	10 h.
Computer simulation exercises, individually and/or in tear	ns		2 h.	2 h.	4 h.
Presentation by the teacher in the classroom, in participat procedures associated with the subjects	tory classes	s, of concepts and	12 h.		12 h.
Carrying out exercises and solving problems individually a	and/or in te	ams	6 h.	14 h.	20 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	20%		(No mech	anisms)	
Individual written and/or oral tests or individual coding/programming tests	80%				
CH - Class hours: 24 h. NCH - Non-class hours: 26 h. TH - Total hours: 50 h.					

CONTENTS

- 1. Functions of several variables
- Multiple integrals
 Fourier series
- 4. Laplace transform



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LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
[!] Apuntes de la asignatura	http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_ln
[!] Plataforma Moodle	k.pl?grupo=EKOTEKNOLOGIA21&ejecuta=5&_ST

[!] Software específico de la titulación