Goi Eskola Politeknikoa Escuela Politécnica

		GENERAL IN	FORMATION					
Studies	DEGREE IN ENC ECO-TECHNOLO			MATHEMATIC	S			
Semester	2	Course 1	Mention / Field of					
Character	BASIC TRAINING	G	specialisation					
Plan	2022	Modality Face-to-face	Language	EUSKARA				
Credits	6	Hours/week 4.06		73 class hours hours	+ 77 r	non-cla	ss hours =	<u>150 to</u>
		2030 AGEN		<u>nours</u>				
NORKAND BECHANTH ADDREASTACTOR								
		PROFE	SSORS					
AROSTEG	UI OCHOA, ASIEI	R						
		REQUIRED PREVIO	OUS KNOWLED	GE				
	Subje	ects		Know	ledge)		
(No	specific previous	s subjects required)	(/\	lo previous kno	wledg	e requi	red)	
		LEARNING	RESULTS					
ARNING RESU	JLTS				кс	sк	AB	ECTS
		bblems that may arise in engineerir geometry; differential geometry an				x		5,4
coming aware of pact of the prop ant-garde, dem th a high degree RTR2 - To expre	of respect for hum posed solutions on onstrating the abil e of autonomy ess information, id	ry projects specific to their specialty an rights and fundamental rights, a the SDGs - to acquire and/or appl lity to work in multidisciplinary team leas and the arguments that suppo	nd analyzing and ass y basic, advanced and s and/or undertake fu rt them in an orderly,	essing the d/or inther studies clear and		x x		0,36 0,24
		ng, based on quality information, se scriminatory language	elf-made or obtained f	rom different			Total:	6
: Knowledge or Co	ntent / SK: Skills / AB:						Total.	-
		SECONDARY LEA	RNING RESULT	S				
2RGC191 (2 s	em)							
	TIVITIES			СН		NCH	тн	
LEARNING AC	_	and a second s	sual material, etc. on			3 h.	3 h.	
Development a projects/work e		iges/case studies/experimental inve						
Development a	xperience/challen I/or in teams							
Development a projects/work e individually and	xperience/challen l/or in teams SYSTEM	ges/case studies/experimental inve	estigations carried out		hanisn	<u>ıs)</u>		
Development a projects/work e individually and EVALUATION Self-assessme	xperience/challen I/or in teams SYSTEM nt	ges/case studies/experimental inve	estigations carried out	ANISMS	hanisn	ns)		
Development a projects/work e individually and EVALUATION	xperience/challen l/or in teams SYSTEM nt t rs: 0 h. s hours: 3 h.	nges/case studies/experimental inve <u> W</u> 50%	estigations carried out	ANISMS	hanisn	ns)		

LEARNING ACTIVITIES	СН	NCH	тн	
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	4 h.	17 h.	21 h.	
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in		10 h.	10 h.	

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Course: 2024 / 2025 - Course planning

interdisciplinary contexts, real and/or simulated, individually and/or in teams 30 h. 18 h. 48 h. Computer simulation exercises, individually and/or in teams 20 h. 20 h. Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects W **EVALUATION SYSTEM** MAKE-UP MECHANISMS 10% Reports on the completion of exercises, case studies, Individual written and/or oral tests or individual computer exercises, simulation exercises, laboratory coding/programming tests exercises, term projects, challenges and problems Individual written and/or oral tests or individual 90% coding/programming tests CH - Class hours: 54 h. NCH - Non-class hours: 45 h. TH - Total hours: 99 h.

2RGC193 (2 sem)						
LEARNING ACTIVITIES		CH	ı	NCH	тн	
Development and writing of records, reports, presentations projects/work experience/challenges/case studies/experim individually and/or in teams EVALUATION SYSTEM	s, audiovis nental inve <i>w</i>	ual material, etc. on stigations carried out MAKE-UP MECHANISMS		3 h.	3 h.	
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%		mecha	anisms)		
CH - Class hours: 0 h. NCH - Non-class hours: 3 h. TH - Total hours: 3 h.						

2RGC194 (2 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 MECHANI	SMS			
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%		(No mech	anisms)		
CH - Class hours: 0 h. NCH - Non-class hours: 3 h. TH - Total hours: 3 h.						

2RGC190 (2 sem)				
LEARNING ACTIVITIES	СН	NCH	тн	
Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams		3 h.	3 h.	

Course: 2024 / 2025 - Course planning

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS	
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%	(No mechanisms)	
CH - Class hours: 0 h. NCH - Non-class hours: 3 h. TH - Total hours: 3 h.			

RGC113 [!] Modeliza y resuelve los problemas geométricos, los físicos y los de ingeniería, utilizando las ecuaciones diferenciales

LEARNING ACTIVITIES			СН	NCH	ТН
Conducting tests, giving presentations, presenting defen- checkpoints	ig 2 h.	10 h.	12 h.		
Carrying out/resolving projects/challenges/cases, etc. to interdisciplinary contexts, real and/or simulated, individual	•	•		4 h.	4 h.
Computer simulation exercises, individually and/or in tea	ms		10 h.	5 h.	15 h.
Presentation by the teacher in the classroom, in participa procedures associated with the subjects	5 h.		5 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	10%	Individual written and/o coding/programming to		or individual	
Individual written and/or oral tests or individual	90%				

2RGC192 (2 sem)						
LEARNING ACTIVITIES			СН	NCH	ТН	
Carrying out/resolving projects/challenges/cases, etc. to p interdisciplinary contexts, real and/or simulated, individua	Illy and/or i	n teams	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	100%		(No mech	anisms)		
CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.						

CONTENTS

1. Differential equations2. Systems of linear equations3. Matrix Algebra4. Vector spaces and subspaces5. Diagonalization6. Inner product, norm and orthogonality

LEARNING RESOURCES AND BIDLIOGRAFHT								
Learning resources	Bibliography							



[!] Plataforma Moodle

[!] Transparencias de la asignatura

[!] Realización de prácticas en ordenador

http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_ln k.pl?grupo=EKOTEKNOLOGIA12&ejecuta=5&_