

Goi Eskola

uela Politécnica perior								
		[GIA301]] MA	THEMATICS I				
		GENER	AL IN	FORMATION				
Studies	DEGREE IN COM	PUTER ENGINEERING		Subject MAT	THEMATICS	6		
Semester	1	Course 1		Mention / Field of				
Character	BASIC TRAINING	i		specialisation				
Plan	2022	Modality Face-to	o-face	Language EUS	SKARA			
Credits	6	Hours/week 5.33		Total hours 96 c	lass hours -	+ 54 non-0	class houi	rs = <u>150 to</u>
				hou	<u>rs</u>			
		P	ROFE	SSORS				
FERNAND	EZ LIZARRIBAR, O	SARBIÑE						
UBARREC	HENA BELANDIA,	ARITZ						
		REQUIRED P	PREVI	OUS KNOWLEDGE				
	Subje	cts			Knowl	edge		
(No	o specific previous	subjects required)		(No pr	evious knov	vledge red	quired)	
		LEAF	RNING	RESULTS				
ARNING RESU	JLTS					KC SI	K AB	ECTS
RAU1 - TO SOIVE	e mathematical prot	ntegral calculus: numerica	igineerii al metho	ng, demonstrating the abilition	ty to	x		5,4
RTR1 - To deve	lop interdisciplinary	projects specific to their	specialt	y and of gradual complexit	y, -	х	ſ	0,28
coming aware o	of respect for huma	n rights and fundamental	rights, a	and analyzing and assessi	ng the			
ant-darde, dem	onstrating the abilit	the SDGs - to acquire and to work in multidisciplination to work in the second s	i∕or app arv tean	iy basic, advanced and /or ns and/or undertake furthe	r studies			
h a high degree	e of autonomy	,						
RTR2 - To expre	ess information, ide	as and the arguments that	at suppo	ort them in an orderly, clear	and	х	ſ	0,32
nerent manner,	orally and in writin	a. based on quality inform						
Ircas Lising inc	lusive and non-dis	criminatory language	iation, s	en-made of obtained from	different			
urces, using inc	clusive and non-dis	criminatory language	iation, s	en-made of obtained from	different			
urces, using inc	clusive and non-disentent / SK: Skills / AB: A	bilities	Y LEA	ARNING RESULTS	different	_	Total:	6
urces, using inc : Knowledge or Col RGI101 [!] Util os errores	clusive and non-disentent / SK: Skills / AB: A	bilities SECONDAR	Y LEA	ARNING RESULTS	different	proximad	Total: o y la exp	e 6 Dansión de
urces, using inc : Knowledge or Col RGI101 [!] Util >s errores	clusive and non-dis ntent / SK: Skills / AB: A liza el cálculo dife	criminatory language bilities SECONDAR rencial para resolver los	Y LEA	ARNING RESULTS	different	oroximad NCH	Total: o y la exp	pansión de
urces, using inc Knowledge or Con RG[101] [!] Util Serrores LEARNING AC Development a	clusive and non-disentent / SK: Skills / AB: A liza el cálculo dife CTIVITIES Ind writing of record	bilities SECONDAR rencial para resolver los	Y LEA	ARNING RESULTS emas de optimización, de	different e cálculo ap CH 1 h.	proximad NCH ,6 h.	Total: o y la exp	а <mark>баль боло саль боло с ТН 1,6 h.</mark>
Inces, using inc Knowledge or Col RGI101 [!] Util Se errores LEARNING AC Development a projects/work e individually and	clusive and non-disentent / SK: Skills / AB: A liza el cálculo difente CTIVITIES nd writing of record xperience/challeng l/or in teams	bilities SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime	Y LEA s proble audiovi	ARNING RESULTS emas de optimización, de sual material, etc. on estigations carried out	cálculo ap cálculo ap CH 1 h.	proximad NCH ,6 h.	Total: o <i>y l</i> a exp	6 Dansión de TH 1,6 h.
RGI101 [!] Util s errores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints	Intent / SK: Skills / AB: A Iiza el cálculo dife CTIVITIES Ind writing of record xperience/challeng I/or in teams ts, giving presentat	bilities SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime ions, presenting defences	Y LEA s proble audiovi ntal inv	ARNING RESULTS emas de optimización, de sual material, etc. on estigations carried out examinations and/or doin	different e cálculo ap <u>CH</u> 1 h. g 3 h.	proximad NCH ,6 h. 1 h.	Total:	5 5 5 6 6 7 1 1 ,6 h. 1 ,6 h. 1 ,6 h.
RGI101 [!] Util serrores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary	Iteration of the second	bilities SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime tions, presenting defences allenges/cases, etc. to pro /or simulated, individually	Y LEA s proble audiovi ntal inv s, taking ovide so and/or	ARNING RESULTS emas de optimización, de sual material, etc. on estigations carried out examinations and/or doin lutions to problems in in teams	different e cálculo ap <u>CH</u> 1 h. g 3 h. 4 h.	proximad <u>NCH</u> ,6 h. 1 h. 2,4 h	Total:	6 5 5 7 7 7 7 7 7 7 7
RGI101 [!] Util serrores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass	Iterat / SK: Skills / AB: A Iterat / SK: Skills / AB: A Iterational for the solution of the solution STIVITIES Ind writing of record xperience/challeng I/or in teams ts, giving projects/cha y contexts, real and y the teacher in the sociated with the solution	bilities SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, les/case studies/experime ions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator biects	Y LEA s proble audiovi ntal inv s, taking ovide so and/or ry classe	ARNING RESULTS ARNING RESULTS amas de optimización, de sual material, etc. on estigations carried out examinations and/or doin lutions to problems in in teams es, of concepts and	different e cálculo ap cH 1 h. g 3 h. 4 h. 10 h.	Droximad ,6 h. 1 h. 2,4 h 6 h.	Total:	. 6 Dansión do TH 1,6 h. 4 h. 6,4 h. 16 h.
Inces, using inc Knowledge or Col RGI101 [!] Util Se errores LEARNING AC Development a projects/work e individually anc Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex	Itiza el cálculo dife CTIVITIES Ind writing of record xperience/challeng I/or in teams ts, giving presentat solving projects/chal y the teacher in the sociated with the su vercises and solving	bilities SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime ions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator bjects g problems individually and	Y LEA s proble audiovi ental inv s, taking ovide so and/or ry classe d/or in t	ARNING RESULTS ARNING RESULTS Armas de optimización, de sual material, etc. on estigations carried out examinations and/or doin lutions to problems in in teams es, of concepts and eams	different cálculo ap CH 1 h. g 3 h. 4 h. 10 h. 31 h.	NCH ,6 h. 2,4 h 6 h. 20 h.	Total:	5 6 7 7 7 7 7 7 7 7
Inces, using inc Knowledge or Col RGI101 [!] Util Serrores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex Self-assessment	Itiza el cálculo dife CTIVITIES Ind writing of record xperience/challeng I/or in teams ts, giving projects/challeng y contexts, real and y the teacher in the sociated with the su tercises and solving int tests in a context	bilities SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime ions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator bjects g problems individually and t of autonomous and conti	Y LEA s proble audiovi ental inv s, taking ovide so and/or ry classe d/or in t inuous l	ARNING RESULTS ARNING RESULTS amas de optimización, de isual material, etc. on estigations carried out examinations and/or doin lutions to problems in in teams es, of concepts and eams earning	different a cálculo ap CH 1 h. 3 h. 4 h. 10 h. 31 h. 2 h.	NCH ,6 h. 2,4 h 6 h. 20 h.	Total:	6 Dansión d TH 1,6 h. 4 h. 6,4 h. 16 h. 51 h. 2 h.
Interdisciplinary RGI101 [!] Utility RGI101 [!] Utility RGI101 [!] Utility Serrores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex Self-assessment EVALUATION	Itent / SK: Skills / AB: A Iiza el cálculo dife CTIVITIES Ind writing of record xperience/challeng I/or in teams ts, giving presentat solving projects/cha / contexts, real and / the teacher in the sociated with the su cercises and solving int tests in a context SYSTEM	bilities SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime ions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator bjects g problems individually and t of autonomous and conti	Y LEA s proble audiovintal inv s, taking ovide so and/or ry classe d/or in t inuous l W	ARNING RESULTS amas de optimización, de sual material, etc. on estigations carried out rexaminations and/or doin lutions to problems in in teams es, of concepts and eams earning MAKE-UP MECHANIS	different e cálculo ap CH 1 h. 3 h. 4 h. 10 h. 31 h. 2 h. SMS	Droximad NCH ,6 h. 2,4 h 6 h. 20 h.	Total:	5 6 7 7 7 7 7 7 7 7
Interdisciplinary Presentation by projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex Self-assessment EVALUATION Reports on the	Itiza el cálculo dife CTIVITIES Ind writing of record xperience/challeng /or in teams ts, giving projects/cha / contexts, real and / the teacher in the sociated with the su tercises and solving int tests in a context SYSTEM completion of exer	bilities SECONDAR SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, les/case studies/experime ions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator bjects g problems individually and t of autonomous and conti	Y LEA s proble audiovi ental inv s, taking ovide so and/or y classe d/or in t inuous l w 2%	ARNING RESULTS ARNING RESULTS amas de optimización, de sual material, etc. on estigations carried out rexaminations and/or doin lutions to problems in in teams es, of concepts and eams earning MAKE-UP MECHANIS Individual written and/or	different cálculo ap cH 1 h. g 3 h. 4 h. 10 h. 31 h. 2 h. cm sms or oral tests	NCH ,6 h. 2,4 h 6 h. 20 h.	Total:	6 Dansión do TH 1,6 h. 6,4 h. 16 h. 51 h. 2 h.
RGI101 [!] Util Serrores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex Self-assessment EVALUATION Reports on the computer exerce	liza el cálculo dife crivines diza el cálculo dife crivines nd writing of record xperience/challeng l/or in teams ts, giving projects/chal y contexts, real and y the teacher in the sociated with the su tercises and solving int tests in a context SYSTEM completion of exer- cises, simulation ex- consiste a tertiones	bilities SECONDAR SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime ions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator bjects g problems individually and t of autonomous and conti cises, case studies, ercises, laboratory	Y LEA s proble audiovi ental inv s, taking ovide so and/or ry classe d/or in t inuous l <u>w</u> 2%	ARNING RESULTS ARNING RESULTS amas de optimización, de isual material, etc. on estigations carried out rexaminations and/or doin lutions to problems in in teams es, of concepts and eams earning MAKE-UP MECHANIS Individual written and/or coding/programming te	cálculo ap cálculo ap cH 1 h. 3 h. 4 h. 10 h. 31 h. 2 h. SMS or oral tests sts	oroximad NCH ,6 h. 2,4 h 6 h. 20 h. or individu	Total:	6 7 7 7 7 7 7 7 7
RGI101 [!] Util RGI101 [!] Util DS errores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex Self-assessmei EVALUATION Reports on the computer exerce exercises, term	Itiza el cálculo dife CTIVITIES Ind writing of record xperience/challeng I/or in teams ts, giving projects/chal y the teacher in the sociated with the su tercises and solving int tests in a context SYSTEM completion of exer projects, challeng or on exercises of a context Completion of exercises of a context projects, challeng	bilities SECONDAR SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime ions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator bjects g problems individually and t of autonomous and conti cises, case studies, ercises, laboratory es and problems inano, orac otudior,	Y LEA s proble audiovi ental inv s, taking ovide so and/or ry classe d/or in t inuous l <u>w</u> 2%	ARNING RESULTS ARNING RESULTS amas de optimización, de isual material, etc. on estigations carried out examinations and/or doin lutions to problems in in teams es, of concepts and eams earning MAKE-UP MECHANIS Individual written and/or coding/programming te Comments: Students of retake the even Control	cálculo ap cálculo ap cH 1 h. 31 h. 2 h. SMS or oral tests with less that	oroximad NCH ,6 h. 2,4 h 6 h. 20 h. or individu	Total:	6 7 7 7 7 7 7 7 7
RGI101 [!] Util serrores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex Self-assessment EVALUATION Reports on the computer exerce exercises, term Presentation ar computer pract	Itiza el cálculo dife CTIVITIES Indervisiona de la contexta Altrica el cálculo dife CTIVITIES Ind writing of record experience/challeng Idor in teams ts, giving projects/cha y contexts, real and y the teacher in the sociated with the su tercises and solving int tests in a context SYSTEM completion of exern cises, simulation exern projects, challenge and defence of exern ical work, simulation	bilities SECONDAR SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime ions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator ibjects g problems individually and t of autonomous and conti cises, case studies, ercises, laboratory es and problems cises, case studies, n practical work.	Y LEA s proble audiovi ental inv s, taking ovide so and/or y classe d/or in t inuous l w 2%	ARNING RESULTS amas de optimización, de sual material, etc. on estigations carried out examinations and/or doin lutions to problems in in teams es, of concepts and eams earning MAKE-UP MECHANIS Individual written and/or coding/programming te Comments: Students y retake the exam. Contro Project: There will not be	cálculo ap cálculo ap cH 1 h. 3 h. 4 h. 10 h. 31 h. 2 h. 5MS or oral tests sets with less that I point value a any retake	oroximad NCH ,6 h. 2,4 h 6 h. 20 h. or individu	Total:	6 7 7 7 7 7 7 7 7
RGI101 [!] Util Serrores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex Self-assessment EVALUATION Reports on the computer exerce exercises, term Presentation ar computer pract laboratory prac	liza el cálculo dife CTIVITIES Ind writing of record xperience/challeng l/or in teams ts, giving presentat solving projects/chal y the teacher in the sociated with the su tercises and solving int tests in a context SYSTEM completion of exercises, simulation exercises, simulation exercises, challenge and defence of exercical work, simulation ical work, sterm proc is thesis challenge	bilities SECONDAR SECOND	Y LEA s proble audiovi ental inv s, taking ovide so and/or ry classe d/or in t inuous l <u>w</u> 2%	ARNING RESULTS ARNING RESULTS amas de optimización, de sual material, etc. on estigations carried out rexaminations and/or doin lutions to problems in in teams es, of concepts and eams earning MAKE-UP MECHANIS Individual written and/or coding/programming te Comments: Students or retake the exam. Contro Project: There will not be	cálculo ap cálculo ap CH 1 h. 3 h. 4 h. 10 h. 31 h. 2 h. SMS or oral tests sets with less that I point value e any retake	oroximad NCH ,6 h. 1 h. 2,4 h 6 h. 20 h. or individu an 5 in the e will be 2: of the ind	Total:	6 7 7 7 7 7 7 7 7 7 7
RGI101 [!] Util RGI101 [!] Util Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex Self-assessment EVALUATION Reports on the computer exerce exercises, term Presentation ar computer pract laboratory prac project, master Individual writter	Itiza el cálculo dife CTIVITIES Ind writing of record xperience/challeng I/or in teams ts, giving projects/chal y the teacher in the sociated with the su tercises and solving int tests in a contex SYSTEM completion of exer projects, challenge and defence of exerd ical work, simulation tical work, simulation is thesis, challenge an and/or oral tests	bilities SECONDAR SECONDAR SECONDAR rencial para resolver los ds, reports, presentations, es/case studies/experime ions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator ibjects g problems individually and t of autonomous and conti cises, case studies, ercises, laboratory es and problems cises, case studies, in practical work, jects, end of degree s and problems or individual	Y LEA s proble audiovi ental inv s, taking ovide so and/or ry classe d/or in t inuous l <u>w</u> 2% 6%	ARNING RESULTS ARNING RESULTS amas de optimización, de sual material, etc. on estigations carried out examinations and/or doin lutions to problems in in teams es, of concepts and eams earning MAKE-UP MECHANIS Individual written and/or coding/programming te Comments: Students of retake the exam. Contro Project: There will not be	cálculo ap cálculo ap cH 1 h. 3 h. 4 h. 10 h. 31 h. 2 h. SMS or oral tests ests with less that I point value e any retake	oroximad NCH ,6 h. 2,4 h 6 h. 20 h. or individu an 5 in the e will be 2: of the ind	Total:	6 7 7 7 7 7 7 7 7
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RGI101 [!] Util Serrores LEARNING AC Development a projects/work e individually and Conducting tes checkpoints Carrying out/re- interdisciplinary Presentation by procedures ass Carrying out ex Self-assessment EVALUATION Reports on the computer exerce exercises, term Presentation ar computer pract laboratory prac project, master Individual writte coding/program	Itiza el cálculo dife CTIVITIES Ind writing of record xperience/challeng //or in teams ts, giving projects/cha / contexts, real and / the teacher in the sociated with the su sercises and solving int tests in a context SYSTEM completion of exercises, simulation ex projects, challenge and defence of exerci ical work, simulation tical work, term pro- 's thesis, challenge an and/or oral tests ming tests duct	sites SECONDAR SECONDAR SECONDAR SECONDAR SECONDAR SECONDAR SECONDAR secondaria para resolver los ds, reports, presentations, res/case studies/experime dions, presenting defences allenges/cases, etc. to pro /or simulated, individually classroom, in participator bjects g problems individually and t of autonomous and conti cises, case studies, rercises, laboratory es and problems cises, case studies, in practical work, jects, end of degree s and problems or individual	Y LEA s proble audiovintal inv s, taking ovide so and/or in t inuous l w 2% 6% 89% 3%	ARNING RESULTS ARNING RESULTS amas de optimización, de sual material, etc. on estigations carried out examinations and/or doin lutions to problems in in teams es, of concepts and eams earning MAKE-UP MECHANIS Individual written and/or coding/programming te Comments: Students or retake the exam. Contro Project: There will not be	cálculo ap cálculo ap cH 1 h. 3 h. 4 h. 10 h. 31 h. 2 h. SMS or oral tests ests with less that I point value e any retake	oroximad NCH ,6 h. 1 h. 2,4 h 6 h. 20 h. or individu an 5 in the e will be 2: of the ind	Total:	6 7 7 7 7 7 7 7 7

Course: 2023 / 2024 - Course planning

NCH - Non-class hours: 30 h. TH - Total hours: 81 h.

RGI102 [!] Utiliza el cálculo integral para resolver problemas físicos y geométricos

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				,4 h.	1,4 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing ^{2 h.} checkpoints					
Carrying out/resolving projects/challenges/cases, etc. to p interdisciplinary contexts, real and/or simulated, individua	4 h.	1,6 h.	5,6 h.		
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects				4 h.	10 h.
Carrying out exercises and solving problems individually	eams	21 h.	14 h.	35 h.	
EVALUATION SYSTEM	IS				
Reports on the completion of exercises, case studies, 2% Individual written and/or oral tests or individual coding/programming tests					

computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems 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	6%	coding/programming tests Comments: Students with less than 5 in the Control point must retake the exam. Control point value will be 25% and retake 75%. Project: There will not be any retake of the individual defense.
Individual written and/or oral tests or individual coding/programming tests	89%	
Prototype / Product	3%	
Comments: Minimum grade: 5 Project evaluation based on	I	
technical rubric		
CH - Class hours: 34 h.		
NCH - Non-class hours: 20 h		

NCH - Non-class hours: 20 h. TH - Total hours: 54 h.

RCI190 [!] Conocer y aplicar las fases para desarrollar de forma guiada, con los objetivos y la planificación previamente definidos, un proyecto de complejidad técnica acorde con los conocimientos de formación básica de la ingeniería. Reflexiona sobre los cono

LEARNING ACTIVITIES			СН	NCH	тн
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams				1 h.	4 h.
EVALUATION SYSTEM W MAKE-UP MECHAN			SMS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	20%		(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	50%				
Prototype / Product	30%				
Comments: Continuous assessment.					
CH - Class hours: 3 h. NCH - Non-class hours: 1 h. TH - Total hours: 4 h.					

Course: 2023 / 2024 - Course planning

RGI191 [!] Contribuir en la estrategia de funcionamiento del equipo priorizando los objetivos comunes, fomentando y valorando la participación de todas las personas y responsabilizándose de las tareas individuales, así como del cumplimiento de plazos

			СН	NCH	тн
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in 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	20%		(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	50%				
Prototype / Product	30%				
Comments: Continuous assessment.					
CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.					

RGI193 [!] Redacta una memoria de proyecto clara y concisa utilizando las fuentes de información y estructura de memoria	
facilitadas, y haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje	

LEARNING ACTIVITIES	СН	NCH	тн		
Development and writing of records, reports, presentatio projects/work experience/challenges/case studies/experi individually and/or in teams	sual material, etc. on estigations carried out	3 h.	1 h.	4 h.	
EVALUATION SYSTEM	EVALUATION SYSTEM W MAKE-UP MECHAN				
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	20%		(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	50%				
Prototype / Product	30%				
Comments: Continuous assessment. It may be asked to document.	redo the				
CH - Class hours: 3 h. NCH - Non-class hours: 1 h. TH - Total hours: 4 h.					

CGI194 [!] Realiza una presentación oral y defe scriminatorio del lenguaje	ensa del proyect	o clara y concisa, hacie	endo uso co	rrecto, inclus	ivo y no
EARNING ACTIVITIES			СН	NCH	тн
Development and writing of records, reports, prese projects/work experience/challenges/case studies/ ndividually and/or in teams	entations, audiovis experimental inve	sual material, etc. on estigations carried out	3 h.	1 h.	4 h.
EVALUATION SYSTEM	w	MAKE-UP MECHANI	SMS		



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Course: 2023 / 2024 - Course planning

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	20%	(No mechanisms)
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	50%	
Prototype / Product	30%	
Comments: Continuous assessment.		
CH - Class hours: 3 h. NCH - Non-class hours: 1 h. TH - Total hours: 4 h.		

CONTENTS

1. Elementary functions and operations 1.1 Potential, exponential, logarithmic, trigonometric. 1.2 Equations and inequalities. 1.3 Absolute value2. Complex numbers 2.1 Forms of expression and operat 3.1 Definition and methods of calculation. ions3. Limits and continuity of functions 3.2 Infinitesi mals. 3.3 Continuity.4. Derivation and its applications 4.1 Definition and geometric meaning. 4. 2 Maximals and minimals 4.3 Problems of variation with time 4.4 Analysis of functions 4.5 Theore ms about derivable functions. 4.6 Taylor's series5. Integration and its applications 5.1 Integratio 5.2 Applications of the definite integral, volume, length, moments of inertia n methods

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

https://labur.eus/biblio-GIA301

Bibliography

Subject notes Moodle Platform Specific Master Software