

Goi Eskola Politeknikoa Escuela Politécnica Superior

	[GBJ20							
	GENE	ERAL INI	FORMATION					
Studies DEGREE IN BIO	OMEDICAL ENGINEERIN	IG	Subject	BIOMATERIA	LS			
Semester 2	Course 2		Mention / Field of					
Character COMPULSORY	/		specialisation					
Plan 2022	Modality Face	e-to-face	Language	EUSKARA				
Credits 3	Hours/week 2.6		Total hours	46.75 class ho total hours	ours + 2	8.25 n	on-class l	nours $= \overline{1}$
	203	0 AGENI	DA GOALS					
HEREAD SUBSTITUTION								
		PROFES	SSORS					
DOMINGUEZ ROMERO, EI	RIKA							
BURUAGA LAMARAIN, LO	REA							
BERNAL RODRIGUEZ, DA	NIEL							
,,		PREVIC		GE				
Sub	jects				vledge			
OMATERIALS I			(1	Vo previous kno			red)	
			RESULTS	·		,		
EARNING RESULTS					кс	sк	AB	ECTS
BR203 - To apply knowledge of b	iomaterials to the design	and develo	pment of implants ar	nd biomedical		x		2,6
struments	-							
RTR1 - To develop interdisciplinate ecoming aware of respect for hur						x		0,24
pact of the proposed solutions of								
			β basic, advanced an					
	pility to work in multidiscipl							
th a high degree of autonomy	pility to work in multidiscipl	inary team	s and/or undertake fu	urther studies		v		0.16
th a high degree of autonomy RTR2 - To express information, i	ility to work in multidiscipl	inary team	s and/or undertake fu t them in an orderly,	urther studies clear and		x		0,16
th a high degree of autonomy RTR2 - To express information, i pherent manner, orally and in wri	ility to work in multidiscipl ideas and the arguments t ting, based on quality info	inary team	s and/or undertake fu t them in an orderly,	urther studies clear and		x		0,16
ith a high degree of autonomy RTR2 - To express information, i pherent manner, orally and in wri	ility to work in multidiscipl ideas and the arguments t ting, based on quality info	inary team	s and/or undertake fu t them in an orderly,	urther studies clear and		x		
ith a high degree of autonomy RTR2 - To express information, i pherent manner, orally and in wri purces, using inclusive and non-c	ility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language	inary team	s and/or undertake fu t them in an orderly,	urther studies clear and		x	Total:	0,16 3
ith a high degree of autonomy •RTR2 - To express information, i oherent manner, orally and in wri ources, using inclusive and non-c	vility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities	inary teams that suppor rmation, se	s and/or undertake fu t them in an orderly, If-made or obtained	urther studies clear and from different		x	Total:	
ith a high degree of autonomy •RTR2 - To express information, i oherent manner, orally and in wri ources, using inclusive and non-c	vility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities	inary teams that suppor rmation, se	s and/or undertake fu t them in an orderly,	urther studies clear and from different		x	Total:	
ith a high degree of autonomy RTR2 - To express information, i pherent manner, orally and in wri purces, using inclusive and non-c	vility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities	inary teams that suppor rmation, se	s and/or undertake fu t them in an orderly, If-made or obtained	urther studies clear and from different		x	Total:	
th a high degree of autonomy RTR2 - To express information, i wherent manner, orally and in wri surces, using inclusive and non-c	vility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities	inary teams that suppor rmation, se	s and/or undertake fu t them in an orderly, If-made or obtained	urther studies clear and from different	_	x	Total:	
th a high degree of autonomy RTR2 - To express information, i wherent manner, orally and in wri surces, using inclusive and non-c	vility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities	inary teams that suppor rmation, se	s and/or undertake fu t them in an orderly, If-made or obtained	urther studies clear and from different	_	<i>x</i>	Total:	
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri ources, using inclusive and non-c C: Knowledge or Content / SK: Skills / AE	vility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities	inary teams that suppor rmation, se	s and/or undertake fu t them in an orderly, If-made or obtained	urther studies clear and from different				3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri burces, using inclusive and non-c C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES	bility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities SECONDA	inary teams that suppor rmation, se	s and/or undertake fu t them in an orderly, ilf-made or obtained	urther studies clear and from different		псн	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri burces, using inclusive and non-c C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects/c	bility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities SECONDA	inary teams that suppor rmation, se <u>RY LEA</u>	s and/or undertake fu t them in an orderly, ilf-made or obtained RNING RESULT	urther studies clear and from different				3
th a high degree of autonomy RTR2 - To express information, i wherent manner, orally and in wri- burces, using inclusive and non-co C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects/c interdisciplinary contexts, real a	bility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities SECONDA	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS CH 1 h.		псн	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of <i>C: Knowledge or Content / SK: Skills / AE</i> 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects/of interdisciplinary contexts, real a EVALUATION SYSTEM	bility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, ilf-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of <i>C: Knowledge or Content / SK: Skills / AE</i> 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects/ interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex-	bility to work in multidiscipl ideas and the arguments t ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS CH 1 h.		NCH 1 h.	тн	3
th a high degree of autonomy RTR2 - To express information, i wherent manner, orally and in wri- burces, using inclusive and non-of <i>C: Knowledge or Content / SK: Skills / AE</i> 2RGE292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects/v interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of <i>C: Knowledge or Content / SK: Skills / AE</i> 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects/ interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex-	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects/v interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation exercises, term projects, challer	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects// interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation exercises, term projects, challer CH - Class hours: 1 h.	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects// interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation exercises, term projects, challer CH - Class hours: 1 h. NCH - Non-class hours: 1 h.	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects// interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation exercises, term projects, challer CH - Class hours: 1 h. NCH - Non-class hours: 1 h.	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects// interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation exercises, term projects, challer CH - Class hours: 1 h. NCH - Non-class hours: 1 h.	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects/v interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of <i>C: Knowledge or Content / SK: Skills / AE</i> 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects// interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation exercises, term projects, challer CH - Class hours: 1 h. NCH - Non-class hours: 1 h. IFH - Total hours: 2 h.	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of <i>C: Knowledge or Content / SK: Skills / AE</i> 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects// interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation exercises, term projects, challer CH - Class hours: 1 h. NCH - Non-class hours: 1 h. TH - Total hours: 2 h.	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of C: Knowledge or Content / SK: Skills / AE 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects// interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation exercises, term projects, challer CH - Class hours: 1 h. NCH - Non-class hours: 1 h.	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS		NCH 1 h.	тн	3
ith a high degree of autonomy RTR2 - To express information, i oherent manner, orally and in wri- burces, using inclusive and non-of <i>C: Knowledge or Content / SK: Skills / AE</i> 2RGB292 (2 sem) LEARNING ACTIVITIES Carrying out/resolving projects// interdisciplinary contexts, real a EVALUATION SYSTEM Reports on the completion of ex- computer exercises, simulation exercises, term projects, challer CH - Class hours: 1 h. NCH - Non-class hours: 1 h. TH - Total hours: 2 h.	bility to work in multidiscipl ideas and the arguments to ting, based on quality info discriminatory language 3: Abilities SECONDA challenges/cases, etc. to p ind/or simulated, individua exercises, case studies, exercises, laboratory	inary teams that suppor rmation, se RY LEA	s and/or undertake fu t them in an orderly, If-made or obtained RNING RESULT	urther studies clear and from different FS <i>CH</i> 1 h. ANISMS	hanism	NCH 1 h.	тн	3

_

Reports on the completion of exercises, case studies,	W	MAKE-UP MECHANI	SMS		
exercises, term projects, challenges and problems	100%	Reports on the completion of exercises, case studies, compute exercises, simulation exercises, laboratory exercises, term projects, challenges and problems Observation (technical capacity, attitude and participation)			
H - Class hours: 1 h. CH - Non-class hours: 1 h. H - Total hours: 2 h.					
2RGB294 (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			1 h.	1 h.	2 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANI			
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%	Observation (technica	l capacity, att	itude and part	icipation)
:H - Class hours: 1 h. ICH - Non-class hours: 1 h. IH - Total hours: 2 h.					
2RGB290 (2 sem) LEARNING ACTIVITIES			СН	NCH	
				,75 h.	ТН
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experin individually and/or in teams			1,25 h.	,75 11.	TH 2 h.
projects/work experience/challenges/case studies/experin				,75 h.	
projects/work experience/challenges/case studies/experin individually and/or in teams	nental inve	stigations carried out	SMS etion of exerc exercises, lab nd problems	ises, case stu oratory exerci	2 h. dies, computer ises, term
projects/work experience/challenges/case studies/experin individually and/or in teams EVALUATION SYSTEM 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: 1,25 h. ICH - Non-class hours: 75 h.	nental inve	MAKE-UP MECHANIS Reports on the comple exercises, simulation of projects, challenges a	SMS etion of exerc exercises, lab nd problems	ises, case stu oratory exerci	2 h. dies, computer ises, term
projects/work experience/challenges/case studies/experin individually and/or in teams EVALUATION SYSTEM 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: 1,25 h. ICH - Non-class hours: 75 h.	nental inve	MAKE-UP MECHANIS Reports on the comple exercises, simulation of projects, challenges a	SMS etion of exerc exercises, lab nd problems	ises, case stu oratory exerci	2 h. dies, computer ises, term
projects/work experience/challenges/case studies/experin individually and/or in teams EVALUATION SYSTEM 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: 1,25 h. ICH - Non-class hours: 7,75 h. IH - Total hours: 2 h.	nental inve	MAKE-UP MECHANIS Reports on the comple exercises, simulation of projects, challenges a	SMS etion of exerc exercises, lab nd problems	ises, case stu oratory exerci	2 h. dies, computer ises, term
projects/work experience/challenges/case studies/experimination individually and/or in teams EVALUATION SYSTEM 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 EH - Class hours: 1,25 h. ICH - Non-class hours: ,75 h. H - Total hours: 2 h. 2RGB291 (2 sem)	nental inve	MAKE-UP MECHANIS Reports on the comple exercises, simulation of projects, challenges a	SMS etion of exerc exercises, lab nd problems	ises, case stu oratory exerci	2 h. dies, computer ises, term
projects/work experience/challenges/case studies/experin individually and/or in teams EVALUATION SYSTEM 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: 1,25 h. ICH - Non-class hours: ,75 h. IH - Total hours: 2 h. 2RGE291 (2 sem) LEARNING ACTIVITIES Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experin	w 100%	stigations carried out MAKE-UP MECHANIS Reports on the comple exercises, simulation e projects, challenges at Observation (technica)	SMS etion of exerc exercises, lab nd problems I capacity, att	ises, case stu oratory exerci itude and part	2 h. dies, computer ises, term icipation)
projects/work experience/challenges/case studies/experin individually and/or in teams EVALUATION SYSTEM 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: 1,25 h. ICH - Non-class hours: ,75 h. IH - Total hours: 2 h. 2RGE291 (2 sem) LEARNING ACTIVITIES Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experin	w 100%	stigations carried out MAKE-UP MECHANIS Reports on the comple exercises, simulation e projects, challenges at Observation (technica)	SMS etion of exerc exercises, lab nd problems I capacity, att	ises, case stu oratory exerci itude and part	2 h. dies, computer ises, term icipation)
projects/work experience/challenges/case studies/experiminatividually and/or in teams EVALUATION SYSTEM 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: 1,25 h. ICH - Non-class hours: ,75 h. ICH - Non-class hours: ,75 h. ICH - Total hours: 2 h. 2RGE291 (2 sem) LEARNING ACTIVITIES Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experiminatividually and/or in teams	w 100%	stigations carried out MAKE-UP MECHANIS Reports on the comple exercises, simulation of projects, challenges and Observation (technica)	SMS petion of exerce exercises, lab and problems I capacity, att CH 1,25 h. SMS petion of exerce	ises, case stu oratory exerci itude and part <i>NCH</i> ,75 h. ises, case stu	2 h. dies, computer ises, term icipation) TH 2 h. dies, computer

Observation (technical capacity, attitude and participation)

CH - Class hours: 1,25 h. NCH - Non-class hours: ,75 h. TH - Total hours: 2 h.

EARNING ACTIVITIES			СН	NCH	ТН
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experir ndividually and/or in teams			5 h.	3 h.	8 h.
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning			3 h.	1 h.	4 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects				9 h.	23 h.
Self-assessment tests in a context of autonomous and co	ontinuous l	earning	3 h.	1 h.	4 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISI	MS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	20%	Individual written and/or oral tests or individual coding/programming tests Comments: %25 1st CP + %75 2nd CP			
Individual written and/or oral tests or individual coding/programming tests	80%				
Comments: Exams: 60 % control point + 10 % moodle te uring lesson period. Exercises: 10 % case study + 20% P					

RGE206 [!] Conoce y comprende las técnicas de modificación superficial y las metodologías para la caracterización de las biosuperficies

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.	7 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doin checkpoints					1 h.
Presentation by the teacher in the classroom, in participa procedures associated with the subjects	10 h.	6 h.	16 h.		
Carrying out work experience in real environments and writing the corresponding report				,75 h.	2 h.
EVALUATION SYSTEM	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	 Individual written and/or oral tests or individual coding/programming tests Comments: %25 1st CP + %75 2nd CP 				
Individual written and/or oral tests or individual coding/programming tests	80%				
Comments: Lesson exercises: 10% practicum + 10% cas 20% PBL	se study +				
CH - Class hours: 16,25 h. NCH - Non-class hours: 9,75 h. TH - Total hours: 26 h.					



CONTENTS

1. Basic concepts of materials for biological applications2. Types of biomaterials: metals, polymers, cer amics3. Tissue engineering4. Corrosion in biological media5. Friction and wear6. Surface modifications an d surface characterization

LEARNING RESOURCES AND BIBLIOGRAPHY

https://labur.eus/OQUG4

Bibliography

Learning resources

[!] Artículos de carácter técnico

[!] Consultas en páginas web relacionadas con el tema

[!] Plataforma Moodle

[!] Presentaciones en clase

[!] Realización de prácticas en laboratorio

[!] Transparencias de la asignatura