Course: 2022 / 2023 - Course planning

Goi Eskola Politeknikoa Escuela Politécnica Superior

perior						
	[GIH206] AR	TIFICI/	AL INTELLIGE	NCE		
	GENE	RAL IN	FORMATION			
Studies DEGREE IN COMF				OFTWARE EN	GINEERING.	INFORMATIO
				YSTEMS AND		
Semester 2	Course 3		Mention / Field of			
Character COMPULSORY			specialisation			
Plan 2017	Modality Adap	oted -to-face	Language E	USKARA		
Credits 6	Hours/week 5.39	-10-1806	Total hours 9 <u>h</u>	7 class hours - <u>ours</u>	+ 53 non-class	hours = <u>150 to</u>
		PROFE	SSORS			
ZUGASTI URIGUEN, EKHI						
	REQUIRED	PREVIO	OUS KNOWLEDG	E		
Subject				Knowl	edge	
(No specific previous s			(No	previous know	-	d)
		SKII	LS			
ERIFICA SKILLS						
PECIFIC						
E301 - To know the foundations, mo ad applications which use these tech				design and bu	uild information	i systems, serv
ENERAL						
GC08 - To build on basic concepts a quire flexibility to adapt to new situa		pand know	vledge and developme	nt of new meth	ods and techn	ologies, and to
GC09 - To be able to take the initiat		. decision r	making, autonomy and	creativity. To b	e able to com	municate and
ansmit knowledge, abilities and skill						
ASIC						
_CB2 - To be able to apply knowledg solve problems within their field of		professiona	al tasks; have the nece	ssary skills to p	oose and defei	nd arguments,
_CB4 - To be able to communicate i		blems and	solutions to both expe	rt and lav audie	ences	
_CB5 - To have developed learning			•			
			RESULTS	5	-	
RG301 Assumes responsibilities	in the work team. or	aanizina a	and planning the task	s to be develo	oped, facing t	he contingend
nd encouraging the participation		0 0				Ū
LEARNING ACTIVITIES				СН	NCH	ТН
Development and writing of records	roporte procontation		sual material etc. on	2 h.	3 h.	5 h.
projects/work experience/challenge				2 11.	011.	011.
individually and/or in teams	·		0			
EVALUATION SYSTEM		W	MAKE-UP MECHA	NISMS		
Presentation and defence of exercise	ses. case studies.	100%		(No mech	anisms)	
computer practical work, simulation	practical work,			(
aboratory practical work, term proje						
project, master's thesis, challenges Comments: Continuous assessme						
comments. Commuous assessme						
CH - Non-class hours: 3 h.						
CH - Non-class hours: 3 h.						
CH - Non-class hours: 3 h.						
ICH - Non-class hours: 3 h.						
ICH - Non-class hours: 3 h. H - Total hours: 5 h.	nt.					
CH - Non-class hours: 3 h. H - Total hours: 5 h.	nt.	em and pr	opose actions for a s	table situation	n.	
CH - Non-class hours: 3 h. H - Total hours: 5 h.	nt.	em and pr	opose actions for a s	table situation	n.	
ICH - Non-class hours: 3 h. H - Total hours: 5 h. RG302 Analyze the intervening v	nt.	em and pr	opose actions for a s		n. <i>NCH</i>	TH
CH - Class hours: 2 h. ICH - Non-class hours: 3 h. H - Total hours: 5 h. RG302 Analyze the intervening v LEARNING ACTIVITIES Development and writing of records	rariables in the proble			table situation		<i>TH</i> 4 h.

Course: 2022 / 2023 - Course planning

EVALUATION SYSTEM	W	MAKE-UP 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 Comments: Continuous assessment.	100%	(No mechanisms)	
CH - Class hours: 2 h. NCH - Non-class hours: 2 h. TH - Total hours: 4 h.			

RGI194 [!] Análisis de los impactos de los ODS en el j	proyecto i	realizado				
LEARNING ACTIVITIES			СН	NCH	ТН	
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experim individually and/or in teams		-	2 h.	2 h.	4 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 Comments: Continuous assessment.	100%		(No mech	anisms)		
CH - Class hours: 2 h. NCH - Non-class hours: 2 h. TH - Total hours: 4 h.						

EARNING ACTIVITIES			СН	NCH	ТН
evelopment and writing of records, reports, presentatio rojects/work experience/challenges/case studies/experi ndividually and/or in teams			3 h.	2 h.	5 h.
VALUATION SYSTEM	W	MAKE-UP MECHAN	SMS		
resentation and defence of exercises, case studies, omputer practical work, simulation practical work, aboratory practical work, term projects, end of degree roject, master's thesis, challenges and problems omments: Continuous assessment. It may be asked to cument.	100% o redo the		(No mech	anisnis)	
I - Class hours: 3 h. :H - Non-class hours: 2 h. - Total hours: 5 h.					

СН

NCH

ΤН

[GIH206] ARTIFICIAL INTELLIGENCE

Course: 2022 / 2023 - Course planning

Development and writing of records, reports, presentations, audiovisual material, etc. on 3 h. 2 h. 5 h. projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams **EVALUATION SYSTEM** W MAKE-UP MECHANISMS 100% Presentation and defence of exercises, case studies, (No mechanisms) computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems Comments: Continuous assessment. CH - Class hours: 3 h. NCH - Non-class hours: 2 h. TH - Total hours: 5 h.

RGI331 [!] Comprender la teoría de agentes inteligentes; Aplicar algoritmos de búsqueda ;

LEARNING ACTIVITIES			СН	NCH	ТН
Development, writing and presentation of memorandums, re Relating to projects/POPBLs carried out individually or in te		audiovisual material, etc.	7 h.	3 h.	10 h.
Individual study and work, tests and evaluations and check points			2 h.		2 h.
Presentation of the teacher in the classroom, in participator procedures associated with the subjects	y classe	es, of concepts and	20 h.	6 h.	26 h.
Individual and team exercises			7 h.	1 h.	8 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANIS	SMS		
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	30%	Written, coding/programevaluation of technical Comments: Students	skills in the	field	
Written, coding/programming and individual oral tests for the evaluation of technical skills in the field Comments: Minimum grade: 5	70%	retake the exam. Contro Project: There will not be	l point value	will be 25% a	ind retake 75%.

CH - Class hours: 36 h. NCH - Non-class hours: 10 h. TH - Total hours: 46 h.

RGI332 [!] Comprender la teoría de machine learning. Aplicar algoritmos de machine learning ;

LEARNING ACTIVITIES			СН	NCH	ТН	
Development, writing and presentation of memorandums, re Relating to projects/POPBLs carried out individually or in te		audiovisual material, etc.	7 h.	3 h.	10 h.	
Individual study and work, tests and evaluations and check points					2 h.	
Presentation of the teacher in the classroom, in participator procedures associated with the subjects	y class	es, of concepts and	20 h.	6 h.	26 h.	
Individual and team exercises			6 h.	2 h.	8 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANIS	SMS			
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	sentation and evalua		Vritten, coding/programming and individual oral tests for the valuation of technical skills in the field omments: Students with less than 5 in the Control point mus			
Written, coding/programming and individual oral tests for the evaluation of technical skills in the field Comments: Minimum grade: 5	70%	retake the exam. Contro Project: There will not be	l point value	e will be 25% a	nd retake 75%	
CH - Class hours: 35 h. NCH - Non-class hours: 11 h. IH - Total hours: 46 h.						



RGI333 [!] Utilizar un framework de Colecciones para aplicaciones de machine learning.

LEARNING ACTIVITIES			СН	NCH	ТН
Development, writing and presentation of memorandums, re Relating to projects/POPBLs carried out individually or in tea		audiovisual material, etc.	4 h.	11 h.	15 h.
Individual study and work, tests and evaluations and check points			2 h.		2 h.
Presentation of the teacher in the classroom, in participator procedures associated with the subjects	y classe	es, of concepts and	5 h.	3 h.	8 h.
Individual and team exercises			3 h.	7 h.	10 h.
EVALUATION SYSTEM	w	MAKE-UP MECHANIS	SMS		
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence Written, coding/programming and individual oral tests for the evaluation of technical skills in the field Comments: Minimum grade: 5	30% 70%	Written, coding/program evaluation of technical Comments: Students v retake the exam. Contro Project: There will not be	skills in the with less that I point value	field an 5 in the Cor e will be 25% a	trol point must nd retake 75%.

CH - Class hours: 14 h. NCH - Non-class hours: 21 h. TH - Total hours: 35 h.

CONTENTS

1. Software agents: pieces of code that make decisions based on environmental conditions. 2. 2. Informed and uninformed search mechanisms in state space.3. Local search.4. Machine Learning: general concepts.5. Machine Learning: Scikit-Learn

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Moodle Platform	http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_ln
Subject notes	k.pl?grupo=INFORMATICA32&ejecuta=35&