

Escuela Politécnica

Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2023 / 2024 - Course planning

GENERAL INFORMATION

Studies DEGREE IN COMPUTER ENGINEERING Subject ? Semester 1 Course 3 Mention / Field of

Character COMPULSORY

Modality Face-to-face

Plan 2022 Credits 6 Hours/week 5.28 Language CASTELLANO/EUSKARA

specialisation

Total hours 95 class hours + 55 non-class hours = 150 total

hours

PROFESSORS

ZUGASTI URIGUEN, EKHI

REQUIRED PREVIOUS KNOWLEDGE

Subjects Knowledge

(No specific previous subjects required)

(No previous knowledge required)

LEARNING RESULTS LEARNING RESULTS KC SK AB **ECTS** 5.08 GIR303 - To know the fundamentals, paradigms and techniques of intelligent systems to create and evaluate computer systems, services and applications that use these techniques in any field of application G-RTR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, 0.44 becoming aware of respect for human rights and fundamental rights, and analyzing and assessing the impact of the proposed solutions on the SDGs - to acquire and/or apply basic, advanced and /or avant-garde, demonstrating the ability to work in multidisciplinary teams and/or undertake further studies with a high degree of autonomy 0,48 G-RTR2 - To express information, ideas and the arguments that support them in an orderly, clear and coherent manner, orally and in writing, based on quality information, self-made or obtained from different sources, using inclusive and non-discriminatory language

Total:

KC: Knowledge or Content / SK: Skills / AB: Abilities

SECONDARY LEARNING RESULTS

RGI390 [!] Definir y gestionar los objetivos y la planificación de un proyecto que le permita adquirir y/o reforzar los conocimientos de tecnologías específicas de su especialidad,- que en ocasiones llegan a la vanguardia del conocimiento- y definir una estrate

LEARNING ACTIVITIES	СН	NCH	ТН	
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in	3 h.	1 h.	4 h.	

interdisciplinary contexts, real and/or simulated, individually and/or in teams **EVALUATION SYSTEM** W **MAKE-UP MECHANISMS** 20% Reports on the completion of exercises, case studies, (No mechanisms) computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems Presentation and defence of exercises, case studies, 50% computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems 30% Prototype / Product Comments: Continuous assessment.

CH - Class hours: 3 h. NCH - Non-class hours: 1 h. TH - Total hours: 4 h.

RGI391 [!] Coordinar el equipo de trabajo, estimulando la cohesión y buen clima para lograr la integración de todas las personas y su contribución para alcanzar un rendimiento apropiado, tanto a nivel individual como grupal, para el desarrollo del proyecto en



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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.					

RGI392 [!] Identificar y argumentar de forma precisa los ODS en los que incide el proyecto realizado, aportando posibles acciones para la mejora.

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			2 h.	1 h.	3 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANI	ISMS			
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 Comments: Continuous assessment.	30%					
CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.						

RGI393 [!] Elabora la memoria del proyecto, aportando argumentos elaborados y haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje.

LEARNING ACTIVITIES			СН	NCH	TH
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experir individually and/or in teams			4 h.	2 h.	6 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)	
Presentation and defence of exercises, case studies,	50%				
computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems					

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CH - Class hours: 4 h. NCH - Non-class hours: 2 h. TH - Total hours: 6 h.

RGI394 [!] Realiza una presentación oral del proyecto, justificando las soluciones propuestas con argumentos elaborados y precisos, y haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje.

LEARNING ACTIVITIES	СН	NCH	TH	
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.	2 h.	6 h.	

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	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 Comments: Continuous assessment.	30%	

CH - Class hours: 4 h. NCH - Non-class hours: 2 h. TH - Total hours: 6 h.

RGI305 [!] Conoce los agentes inteligentes y sabe aplicar técnicas de búsqueda.

LEARNING ACTIVITIES	СН	NCH	TH
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.	,8 h.	3,8 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	2 h.		2 h.
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams	10 h.	5,2 h.	15,2 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	6 h.	4 h.	10 h.
Carrying out exercises and solving problems individually and/or in teams	20 h.	13 h.	33 h.

EVALUATION SYSTEM	W
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	6%
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	15%
Individual written and/or oral tests or individual coding/programming tests	70%
Prototype / Product	9%

Comments: Minimum grade: 5 Project evaluation based on technical rubric

CH - Class hours: 41 h. NCH - Non-class hours: 23 h. TH - Total hours: 64 h.

MAKE-UP MECHANISMS

Individual written and/or oral tests or individual 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.



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LEARNING ACTIVITIES			СН	NCH	TH
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/expering individually and/or in teams			3 h.	,6 h.	3,6 h.
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints			2 h.		2 h.
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams			9 h.	5,4 h.	14,4 h.
Presentation by the teacher in the classroom, in participa procedures associated with the subjects	tory class	es, of concepts and	4 h.	6 h.	10 h.
Carrying out exercises and solving problems individually	and/or in	teams	20 h.	13 h.	33 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISM	IS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	6%	Individual written and/or oral tests or individual coding/programming tests Comments: Students with less than 5 in the Control point i			trol point must
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, aboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	15%	retake the exam. Control p Project: There will not be a			
ndividual written and/or oral tests or individual coding/programming tests	70%				
Prototype / Product	9%				

CH - Class hours: 38 h. NCH - Non-class hours: 25 h. TH - Total hours: 63 h.

technical rubric

Comments: Minimum grade: 5 Project evaluation based on

CONTENTS

1. Representation and Reasoning 1.1 Software Agents2. Computational Intelligence 2.1 Search and Gam es 2.2 Planning3. Data Intelligence 3.1 Machine Learning 1: Theoretical bases 3.2 Machine Learning 2: ML Agents

LEARNING RESOURCES AND BIBLIOGRAPHY

ELAKKING KESCOKCES AND BIBLICOKAI III			
Learning resources	Bibliography		
Subject notes	https://labur.eus/biblio-GIH303		

Moodle Platform Specific Master Software