Course: 2022 / 2023 - Course planning

Goi Eskola Politeknikoa Escuela Politécnica Superior

[GIE2	07] CONCURRENT AN	D DISTRIBUT	ED SYSTI	EMS	
	GENERAL INF	ORMATION			
Studies DEGREE IN CO	MPUTER ENGINEERING	Subject	OPERATING S SYSTEMS AND		
Semester 2	Course 3	Mention / Field of			
Character COMPULSORY		specialisation			
Plan 2017	Modality Adapted Face-to-face	Language	CASTELLANO		
Credits 6	Hours/week 5	Total hours	90 class hours - hours	+ 60 non-class	hours = <u>150 total</u>
	PROFES	SORS			
MUÑOZ VALENTI, UNAI					
	REQUIRED PREVIO				
Subj			Knowl	-	0
(No specific previou	• • •	•	No previous know	vledge require	d)
	SKIL	LS			
VERIFICA SKILLS					
the software for these systems	d assess computer architecture, inclu implement systems and communicat		stributed platform	ns and to deve	lop and optimise
GIGC04 - To be able to define, eva systems, services and applications	luate and select hardware and softw s I develop centralised or distributed co				
CROSS					
and ideas concerning IT, verbally a	0		-		ocedures, results
BASIC	in cooperative, participatory environ	iments, with awarene		Jonsibility.	
	ledge to occupational or professional of study	I tasks; have the nec	essary skills to p	oose and defe	nd arguments, and
·	te information, ideas, problems and s	solutions to both exp	ert and lay audie	ences	
G_CB5 - To have developed learni	ng abilities required to embark on su	bsequent studies wi	th a high level of	autonomy.	
	LEARNING	RESULTS			
RG301 Assumes responsibilit and encouraging the participati	ties in the work team, organizing a ion of its members.	nd planning the tas	sks to be develo	oped, facing t	he contingencies
LEARNING ACTIVITIES			СН	NCH	тн
Development, writing and presen Relating to projects/POPBLs car	ntation of memorandums, reports, au rried out individually or in teams	udiovisual material, e	etc. 4 h.	1 h.	5 h.
EVALUATION SYSTEM	W	MAKE-UP MECH	ANISMS		
Technical skills, involvement in t obtained results, handed docum technical defence Comments: Continuous assess	entation, presentation and		(No mech	anisms)	
CH - Class hours: 4 h. NCH - Non-class hours: 1 h. TH - Total hours: 5 h.					
r					
RCK02 Analyze the intervenin	g variables in the problem and pro	ppose actions for a	stable situatio	1 .	

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LEARNING ACTIVITIES			СН	NCH	ТН	
Development, writing and presentation of memorandums, re Relating to projects/POPBLs carried out individually or in te	• •	udiovisual material, etc.	2 h.	2 h.	4 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANIS	MS			
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	100%		(No mech	anisms)		
Comments: Continuous assessment.						
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 p	royecto	realizado			
LEARNING ACTIVITIES			СН	NCH	тн
Development, writing and presentation of memorandums, re Relating to projects/POPBLs carried out individually or in te		udiovisual material, etc.	4 h.		4 h.
EVALUATION SYSTEM	w	MAKE-UP MECHANIS	SMS		
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence Comments: Continuous assessment.	100%		(No mech	anisms)	
CH - Class hours: 4 h. NCH - Non-class hours: 0 h. TH - Total hours: 4 h.					

LEARNING ACTIVITIES			СН	NCH	тн
Development, writing and presentation of memorandums, re Relating to projects/POPBLs carried out individually or in te		udiovisual material, etc.	3 h.	2 h.	5 h.
EVALUATION SYSTEM	w	MAKE-UP MECHANIS	MS		
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	100%		(No mech	anisms)	
Comments: Continuous assessment. It may be asked to redocument.	do the				

RG305 Define the problem, develop the solution and present the conclusions in a effici one of them in spoken form.	ent manne	r, arguing and	l justifying eac	h
LEARNING ACTIVITIES	СН	NCH	ТН	
Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams	4 h.	1 h.	5 h.	-



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	EVALUATION SYSTEM	W	MAKE-UP MECHANISMS	
	Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence Comments: Continuous assessment.	100%	(No mechanisms)	
	CH - Class hours: 4 h. NCH - Non-class hours: 1 h. TH - Total hours: 5 h.			

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.	14 h.	8 h.	22 h.
ndividual study and work, tests and evaluations and check	ividual study and work, tests and evaluations and check points			2 h.	4 h.
Presentation of the teacher in the classroom, in participatory procedures associated with the subjects	y classe	es, of concepts and	9 h.	4 h.	13 h.
ndividual and team exercises			5 h.	8 h.	13 h.
EVALUATION SYSTEM	w	MAKE-UP MECHANIS	MS		
Fechnical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and echnical defence	40%	Written, coding/program evaluation of technical Comments: Students v	skills in the	field	
Written, coding/programming and individual oral tests for the evaluation of technical skills in the field	60%	retake the exam. Control Project: There will not be	point value	will be 25% a	nd retake 75%
Comments: Minimum grade: 5					

NCH - Non-class hours: 30 h. TH - Total hours: 52 h.

RGI326 [!] Sabe utilizar algoritmos de paralelización para optimizar la ejecución del software.

LEARNING ACTIVITIES			СН	NCH	ТН
	Development, writing and presentation of memorandums, reports, audiovisual material, etc. Relating to projects/POPBLs carried out individually or in teams			3 h.	7 h.
Individual study and work, tests and evaluations and check points			2 h.	2 h.	4 h.
Presentation of the teacher in the classroom, in participator procedures associated with the subjects	y class	es, of concepts and	9 h.	6 h.	15 h.
Individual and team exercises			6 h.	5 h.	11 h.
EVALUATION SYSTEM	w	MAKE-UP MECHANIS	SMS		
Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence	20%	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	80%	retake the exam. Contro Project: There will not be	l point value	e will be 25% a	ind retake 75%
CH - Class hours: 21 h. NCH - Non-class hours: 16 h. IFH - Total hours: 37 h.					

RGI327 [!] Desarrollar aplicaciones en red sobre la capa de transporte

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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.	6 h.	2 h.	8 h.
Individual study and work, tests and evaluations and check points			2 h.	2 h.	4 h.
Presentation of the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects		12 h.	6 h.	18 h.	
Individual and team exercises			2 h.	6 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	20%	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	80%	retake the exam. Contro Project: There will not be	l point value	e will be 25% a	ind retake 75%.
CH - Class hours: 22 h. NCH - Non-class hours: 16 h. I'H - Total hours: 38 h.					

CONTENTS

1. Concurrent Programming in Java

2. Parallelization in Java

Distributed programming
Middleware platforms
Message distribution platforms

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources Bibliography http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_ln k.pl?grupo=INFORMATICA32&ejecuta=10& Moodle Platform

Subject notes

[GIE207] CONCURRENT AND DISTRIBUTED SYSTEMS