Course: 2024 / 2025 - Course planning

Goi Eskola Politeknikoa Escuela Politécnica Superior

	[MLC00							
	GENE	ERAL INI	FORMATION					
Studies UNIVERSITY M PRODUCTIVE MANAGEMENT	LOGISTICS OPERATION	IS	Subject	21st century b	usines	S		
Semester 1 Character OPTIONAL	Course 1		Mention / Field of specialisation					
Plan 2022	Modality Face	e-to-face	Language	CASTELLANC	)			
Credits 3	Hours/week 0			47 class hours		non-clas	ss hours	= <u>75 tot</u>
	203	0 AGENI	DA GOALS					
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FERNANDEZ ARRIETA, MI		PROFES	SSORS					
EGUREN EGUIGUREN, JC								
				GE				
Sub	jects			CL Know	leda	3		
	is subjects required)		(1	Vo previous kno			red)	
· · ·	• • •	ARNING	RESULTS				-	
ARNING RESULTS					кс	sк	AB	ECTS
R021 - Identifies, knows and un				benefits of	x			2,2
lustry 4.0 technologies applied t R301 - Works in multidisciplinar d efficiently communicates the r	y teams, without distinction esults obtained orally and	on, with a co I in writing i	ooperative and partic		x		x	0,4
itation of accessibility to achieve	e the established objective	20						
			nt in order to practice	e with social	x			0,4
ponsibility	of their profession on the 3: Abilities	environme			x		Total:	0,4 3
sponsibility : Knowledge or Content / SK: Skills / AE	of their profession on the 3: Abilities SECONDA os multidisciplinares, sir	environme	RNING RESULT	۲S tud cooperativ	va, par	ticipati	va y cor	3 nunica
R302 - Understands the impact sponsibility : Knowledge or Content / SK: Skills / AE RML301 [!] Trabaja en equipo ficiente los resultados obtenio lcanzar lo	of their profession on the 3: Abilities SECONDA os multidisciplinares, sir	environme	RNING RESULT	۲S tud cooperativ	va, par	ticipati e acces	va y cor	3 nunica
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procedures associated with the subjects w **EVALUATION SYSTEM** MAKE-UP MECHANISMS 70% Reports on the completion of exercises, case studies, Reports on the completion of exercises, case studies, computer computer exercises, simulation exercises, laboratory exercises, simulation exercises, laboratory exercises, term exercises, term projects, challenges and problems projects, challenges and problems Individual written and/or oral tests or individual 30% coding/programming tests CH - Class hours: 40 h. NCH - Non-class hours: 15 h. TH - Total hours: 55 h. RML302 [!] Entiende el impacto de su profesión en el entorno para ejercer con responsabilidad social СН NCH ΤН LEARNING ACTIVITIES 4 h. 6 h. 10 h. 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

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	100%	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems
CH - Class hours: 4 h. NCH - Non-class hours: 6 h.		

CONTENTS

LEARNING RESOURCES AND BIBLIOGRAPHY				
Learning resources	Bibliography			
Moodle Platform Class presentations	P. Leita˜o, A. W. Colombo and S. Karnouskos, "Industrial automation based on cyber-physical systems technologies:Prototype implementations and challenges," Computers in Industry, vol. 81, pp. 11-25, 2016.			
	Guardian News & Media Limited, "Google Glass – hands-on review," 2019. [Online]. Available: https://www.theguardian. com/technology/2013/jul/02/google-glass-review-augmented-reality. [Accessed 1 May 2019].			
	. Lee, B. Bagheri and HA. Kao, "A Cyber-Physical Systems architecture for Industry 4.0-based manufacturing systems," Manufacturing Letters, vol. 3, pp. 18-23, 2015.			
	Nayyar A., · Kumar A., A Roadmap to Industry 4.0: Smart Production, Sharp Business and Sustainable Development. Springer 2020. https://doi.org/10.1007/978-3-030-14544-6			
	" IMPULS, Industrie 4.0 readiness, dr. Karl lichtblau dr. Roman bertenrath, matthias blum, martin bleider, agnes millack, katharina schmitt, edgar schmitz, moritz schröter aachen, cologne, october 2015"			
	Franka, A., Dalenogareb, L., Ayalac, N., Industry 4.0 technologies: Implementation patterns in manufacturing Companies, International Journal of Production Economics, 2019			

TH - Total hours: 10 h.