

Course: 2023 / 2024 - Course planning

Goi Eskola Politeknikoa Escuela Politécnica Superior

[GIG302] INDUSTRIAL COMPUTING								
GENERAL INFORMATION								
Studies DEGREE IN CO	MPUTER ENGINEERING	Subject	COMPUTER E	NGINE	ERIN	G		
Semester 1	Course 2	Mention / Field of						
Character COMPULSORY		specialisation						
<b>Plan</b> 2022	Modality Face-to-face	Language	EUSKARA					
Credits 4,5	Hours/week 4	Total hours	72 class hours hours	+ 40.5	non-c	lass hours	= <u>112.5 total</u>	
PROFESSORS								
AYERDI CANTALEJO, JON								
ORMAETXEA MUGERTZA, JON								
UGARTE QUEREJETA, MIR	AIAM							
ARRATIBEL GARCIA, ANDO	INC							
REQUIRED PREVIOUS KNOWLEDGE								
Subjects		Knowledge						
(No specific previous subjects required) (No previous knowledge required)								
	LEARNING	RESULTS						
LEARNING RESULTS				кс	SK	AB	ECTS	
GIR204 - To develop software and integration solutions based on adequate knowledge of current theories,					x		4,02	
G-RTR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, -					x		0,24	
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								
<b>G-RTR2</b> - To express information, ideas and the arguments that support them in an orderly, clear and					x		0,24	
sources, using inclusive and non-di	scriminatory language	in-made or obtained	from different					
KC: Knowledge or Content / SK: Skills / AB	Abilities					Total:	4,5	
(No secondary learning results)								
CONTENTS								

1. Introduction 1.1 Basic concepts: Concurrency, real time, system modeling, state machines and fieldb 2.1 Industrial system modeling techniques. uses.2. System modeling and control 2.2 Low level contro l (PID, PI, P) 2.3 High level control (State machines, Grafcet, Petri Nets).3. PLCs and industrial con trollers programming

LEARNING RESOURCES AND BIBLIOGRAPHY					
Learning resources	Bibliography				
Subject notes	https://labur.eus/biblio-GIG302				
Moodle Platform					
Specific Master Software					

Lab practical training