Goi Eskola Politeknikoa | Mondragon Unibertsitatea
Course: 2023 / 2024 - Course planning

Mondragon
Unibertsitatea
Goi Eskola
Politeknikoa
Escuela Politécnica
Superior

[GCZ302] BASIC INDUSTRIAL AUTOMATION

GENERAL INFORMATION

Studies	DEGREE IN ENGINEERING IN ECO-TECHNOLOGY IN INDUSTRIAL PROCESS	**Subject**	?
Semester	1	**Course** 3	
Character	COMPULSORY	**Mention / Field of specialisation**	
Plan	2022	**Modality** Face-to-face	**Language** ENGLISH
Credits	3	**Hours/week** 3.56	**Total hours** [!] 64 class hours + 75 non-class hours = **139 total hours**

PROFESSORS

MITXELENA MARTIARENA, EKHI

REQUIRED PREVIOUS KNOWLEDGE

Subjects	**Knowledge**
(No specific previous subjects required)	*(No previous knowledge required)*

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
GCR302 - Develops automation systems and control methods appropriate to the requirements and needs of users		x		2,56
G-RTR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, - 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		x		0,2
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		x		0,24
			Total:	**3**

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

CONTENTS

Control and protection devices:- Protection devices.- Control devices or drive mechanisms.- Interpretation of electrical diagrams.Programming devices (PLC):- Basic concepts.- Programming environment with TIA Portal software.- Software development and simulation.- Connection with the digital twin: virtual commissioning.- Implementation of practical sessions.

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	**Bibliography**
Slides of the subject	http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_ln k. pl?grupo=EKOTEKNOLOGIA31&ejecuta=35
Specific Master Software	
Moodle Platform	
Lab practical training	