

## Industrial Automation II

Academic Year: ( 2019 / 2020 )

Review date: 14-05-2020

Department assigned to the subject: Systems Engineering and Automation Department

Coordinating teacher: CASTRO GONZALEZ, ALVARO

Type: Electives ECTS Credits : 6.0

Year : 4 Semester :

## REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Automatización Industrial I

## OBJECTIVES

- Extend the knowledge on automation of industrial systems.
- Integration of the different equipments that are included in the automated industrial system.
- Capacity of collaborative team work

## DESCRIPTION OF CONTENTS: PROGRAMME

This course has a practical character. The students automatize a real flexible manufacturing system, that includes:

- Storage and transport automated systems
- CNC machine tools
- Industrial robots
- Test systems

To do that they must:

- Program the controllers
- Program the communication systems
- Coordinate the cells of the flexible manufacturing system
- Design and program a supervision system and a human-machine interface

## LEARNING ACTIVITIES AND METHODOLOGY

- Practical work in the workshop (6 credits ECTS)

## ASSESSMENT SYSTEM

Continuous assessment of the work in the workshop

Assessment of the systems developed by the student

<b>% end-of-term-examination:</b>	0
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	100