

Industrial Automation II

Academic Year: (2024 / 2025)

Review date: 25-04-2024

Department assigned to the subject: Systems Engineering and Automation Department

Coordinating teacher: CASTRO GONZALEZ, ALVARO

Type: Compulsory ECTS Credits : 3.0

Year : 4 Semester : 1

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Industrial Automation I

OBJECTIVES

- Extend the knowledge on automation of industrial systems.
- Integration of the different types of equipment that are included in an automated industrial system.
- Capacity of collaborative teamwork.

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 (3 credits ECTS)

ASSESSMENT SYSTEM

% end-of-term-examination:	20
% of continuous assessment (assignments, laboratory, practicals...):	80

Continuous assessment of the work in the workshop
Assessment of the systems developed by the student
Report of the system developed by the student.