Industrial Automation II

Academic Year: (2019 / 2020) **Review date: 04-12-2019**

Department assigned to the subject: Systems Engineering and Automation Department

Coordinating teacher: MARTINEZ DE LA CASA DIAZ, SANTIAGO

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

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

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