Robotics and automatization at construction

Academic Year: (2022 / 2023) **Review date: 22-11-2020**

Department assigned to the subject: Systems Engineering and Automation Department

Coordinating teacher: BALAGUER BERNALDO DE QUIROS, CARLOS

Type: Electives ECTS Credits : 3.0

Year : 1 Semester : 2

DESCRIPTION OF CONTENTS: PROGRAMME

1. Introduction.
2. Typology of applications: civil work and building.
3. Classification of robots in construction.
4. Applications in civil works
4.1 Robots for earthworks
4.2 Robots for construction of carts
4.3 Infrastructure maintenance robots
4.4 Robots for marine and underwater works
5. Building applications
5.1 Construction of structures
5.2 Interior finish
5.3 Cleaning and maintenance of facades
6. ICTs in construction
7. Sensory systems and actuators

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