
Academic Year: (2019 / 2020)

Review date: 17-06-2016

Department assigned to the subject: Department of Systems Engineering and Automation

Coordinating teacher: SALICHS SANCHEZ-CABALLERO, MIGUEL

Type: Electives ECTS Credits : 6.0

Year : 4 Semester : 1

COMPETENCES AND SKILLS THAT WILL BE ACQUIRED AND LEARNING RESULTS.

Knowledge of the basic problems associated to the development of robots, the state of the art and future tendencies of robotics. The course presents a wide panoramic of robotics, from industrial robots to intelligent autonomous robots.

DESCRIPTION OF CONTENTS: PROGRAMME

- Introduction to robotics
- Elements of robots
- Control architectures
- Navigation

LEARNING ACTIVITIES AND METHODOLOGY

- Lectures
- Practice

ASSESSMENT SYSTEM

Continuous assessment based in works, participation in lectures and evaluation of skills and knowledge.

% end-of-term-examination: 50

% of continuous assessment (assignments, laboratory, practicals...): 50

BASIC BIBLIOGRAPHY

- Roland Siegwart, Illah Reza Nourbakhsh and Davide Scaramuzza Introduction to autonomous mobile robots, MIT Press, 2011