

Academic Year: ( 2023 / 2024 )

Review date: 05-07-2021

Department assigned to the subject: Systems Engineering and Automation Department

Coordinating teacher: SALICHS SANCHEZ-CABALLERO, MIGUEL

Type: Compulsory ECTS Credits : 6.0

Year : 1 Semester : 1

## OBJECTIVES

- Knowledge of the state of the art of intelligent autonomous robotics
- Knowledge of the bases of intelligent autonomous robotics

## DESCRIPTION OF CONTENTS: PROGRAMME

Introduction to robotics  
Autonomy  
Intelligence  
Control architectures of robots  
Introduction to robot learning  
Introduction to robot perception  
Introduction to decision making  
Introduction to human-robot interaction  
Roboethics

## LEARNING ACTIVITIES AND METHODOLOGY

Theoretical and experimental lectures, presentations of the students, individual tutorials and personal work of the student. The participation of the students will be promoted in all lectures.

## ASSESSMENT SYSTEM

<b>% end-of-term-examination:</b>	50
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	50
Final exam, individual work and participation in lectures	

## BASIC BIBLIOGRAPHY

- George A. Bekey Autonomous Robots: From Biological Inspiration to Implementation and Control, MIT Press, 2005