Robot Operating Systems

Academic Year: (2021 / 2022)   **Review date: 28-06-2021**

Department assigned to the subject: Systems Engineering and Automation Department

Coordinating teacher: ALONSO MARTIN, FERNANDO

Type: Compulsory ECTS Credits : 3.0

Year : 1 Semester : 1

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

It is recommended to have installed Ubuntu in your personal laptop using a Virtual Machine.

OBJECTIVES

Basic knowledge of ROS, programming and Linux.

DESCRIPTION OF CONTENTS: PROGRAMME

1. Introduction to ROS
2. Communications methods.
3. Programming nodes.
4. Topics.
5. Services.
6. Timers.
7. Distributed execution.

LEARNING ACTIVITIES AND METHODOLOGY

It will be provided additional online tutorials in order to help to perform the exercises.

ASSESSMENT SYSTEM

It will be evaluated using a test and a practice.

% end-of-term-examination:	50
% of continuous assessment (assigments, laboratory, practicals…):	50