

Academic Year: ( 2019 / 2020 )

Review date: 07-05-2018

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.

<b>% end-of-term-examination:</b>	50
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	50