

Academic Year: (2023 / 2024)

Review date: 14-02-2022

Department assigned to the subject: Telematic Engineering Department

Coordinating teacher:

Type: Compulsory ECTS Credits : 6.0

Year : 3 Semester : 2

DESCRIPTION OF CONTENTS: PROGRAMME

1. Communicating with robots. Definition and types of networks
2. Introduction to protocol stacks and terminology
3. Physical layer options
4. Link layer: medium access protocols (CSMA/CD, CSMA/CA), Ethernet protocol, VLAN, IEEE 802.11
5. Network layer: IPv4, IPv6, DHCP and NAT
6. The transport layer: TCP, UDP

LEARNING ACTIVITIES AND METHODOLOGY

THEORETICAL PRACTICAL CLASSES.

Knowledge and concepts students must acquire. Receive course notes and will have basic reference texts. Students partake in exercises to resolve practical problems.

TUTORING SESSIONS.

Individualized attendance (individual tutoring) or in-group (group tutoring) for students with a teacher. Subjects with 6 credits have 4 hours of tutoring/ 100% on- site attendance.

STUDENT INDIVIDUAL WORK OR GROUP WORK.

Subjects with 6 credits have 98 hours/0% on-site.

WORKSHOPS AND LABORATORY SESSIONS.

Subjects with 3 credits have 4 hours with 100% on-site instruction. Subjects with 6 credits have 8 hours/100% on-site instruction.

ASSESSMENT SYSTEM

FINAL EXAM.

Global assessment of knowledge, skills and capacities acquired throughout the course. The percentage of the evaluation varies for each subject between 60% and 0%.

CONTINUOUS EVALUATION.

Assesses papers, projects, class presentations, debates, exercises, internships and workshops throughout the course. The percentage of the evaluation varies for each subject between 40% and 100% of the final grade.

% end-of-term-examination:	60
% of continuous assessment (assignments, laboratory, practicals...):	40