Seminar 1

Academic Year: (2022 / 2023)   **Review date: 20-04-2022**

Department assigned to the subject: Telematic Engineering Department

Coordinating teacher: BLANCO ROJAS, MARIA DOLORES

Type: Compulsory ECTS Credits : 3.0

Year : 1 Semester : 2

OBJECTIVES

BASIC COMPETENCES
CB6   Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context
CB7   That students know how to apply the knowledge acquired and their ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their area of study
CB8   That students are able to integrate knowledge and face the complexity of making judgments based on information that, being incomplete or limited, includes reflections on social and ethical responsibilities linked to the application of their knowledge and judgments
CB10   That students have the learning skills that allow them to continue studying in a way that will be largely self-directed or autonomous

GENERAL COMPETENCES
CG5 Capacity for basic analysis of the requirements for information management and treatment of large volumes of data.
CG6   Capacity to adapt to changes in requirements associated with new products, new specifications and environments.
CG7   Be able to generate new ideas (creativity) and to anticipate change.
CG8   Use skills for teamwork and to relate to others autonomously.

SPECIFIC COMPETENCES
CE1   Ability to design automatic process systems (production machinery, transport and storage systems and quality control) and the interconnection between their different modules (industrial protocols)
CE2   Ability to integrate and program the different industrial process control systems both from a hardware and software point of view
CE6   Ability to design and control some next-generation wireless networks in industrial applications
CE10   Programmatic data processing capabilities in solving particular problems of the connected industry
CE11   Ability to design customizable and adaptable mechanical parts and objects

LEARNING RESULTS
At the end of the subject matter, the student must:
- Know concrete models and use cases of Connected Industry 4.0.
-Analyze and design practical cases of application of Connected Industry 4.0 models

DESCRIPTION OF CONTENTS: PROGRAMME

The content of the seminars will be on advanced topics in Connected Industry 4.0 presented by national or international experts.

To determine each year.

ASSESSMENT SYSTEM

SE2 Individual or group work done during the course (100 %)

% end-of-term-examination: 0

% of continuous assessment (assigments, laboratory, practicals…): 100