

29912 - Business Management and Organization

Syllabus Information

Academic year: 2023/24

Subject: 29912 - Business Management and Organization

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

Degree: 435 - Bachelor's Degree in Chemical Engineering

ECTS: 6.0

Year: 2

Semester: First semester

Subject type: Compulsory

Module:

1. General information

The goal of this subject is for students to acquire the necessary knowledge about the Strategic Management process and, especially, about Operations Management, so that they can participate in the future in the decision making process in the company. To do so, they will learn to use strategic and operational techniques such as: types of strategies, product portfolio, location decisions, production processes, occupational risk prevention, production planning, industrial logistics and/or quality.

These approaches and goals are aligned with the Sustainable Development Goals (SDGs) of the 2030 Agenda of United Nations (<https://www.un.org/sustainabledevelopment/es/>) and certain specific targets, so that the acquisition of the learning results of the subject provides training and competence to the student to contribute to some extent to the achievement of goal 8.2 of objective 8.

2. Learning results

- Understand the current business structure, from large corporations to SMEs, know their governance structures and the conflicts and overlaps of interests between stakeholders.
- Understand the relationship between environment, behavior (types of strategies) and company results. Characterize the environment of the company and chooses the appropriate competitive strategy.
- Understand the diversity of business and organizational functions, as well as the special characteristics of managerial work.
- Understand the main characteristics of different organizational designs. Design organization charts and manuals for functions. Use and interpret human resources information in organizations.
- Identify the main strategic and tactical decisions in operations management.
- Apply location criteria to select locations for company activities.
- Relate product and process design decisions.
- Establish the principles of production planning and scheduling.
- Analyze and makes proposals for improvement of work methods. Apply simple time study techniques in the work organization.
- Identify the key parameters in procurement and inventory management. Select the most appropriate physical and commercial distribution channels for products and services.
- Recognize the importance of occupational risk prevention in the company's activities.
- Identify the main elements necessary to organize the prevention of occupational risks in the company's activities the company.

3. Syllabus

Part I. Strategic Management

Part II. Operations Management

- Block I. Decisions on location, production processes and work organization
- Block II. Planning, Scheduling and Operations Control Decisions
- Block III. Industrial logistics
- Block IV. Industrial Quality Decisions

4. Academic activities

Master classes: 45 hours

Theoretical-practical sessions in which the contents of the subject will be explained.

Laboratory practices: 12 hours

Practical exercises using computer tools.

Teaching assignments: 27 hours

Application through work of the concepts learned.

Personal study: 63 hours

Assessment tests. 3 hours

5. Assessment system

Students can choose two methods:

1. Assessment throughout the semester. It will consist of the development of the following activities:

- Performance of proposed practical exercises using computer tools. It will account for 10% of the final grade.
- Carrying out a group work applying concepts of the subject. It will account for 30% of the final grade.
- Completion of an individual written test that includes theoretical and practical questions of the subject matter learned in the subject during the classes. It will be assessed with 60% of the final grade. A score of 4.5 out of 10 will be required in this test, to be averaged with the previous activities, in order to pass the subject. This test will be held at the official call established by the center.

2. Global assessment. Single written test, to be taken in the official calls, and which incorporates the entire syllabus (theoretical and practical). This test will consist of two examinations:

- the first one, will be the same that will be carried out in a continuous assessment throughout the semester and will also represent 60% of the final grade.
- the second will follow the previous test and will include the rest of the syllabus. A score of 4.5 out of 10 will be required for this test to average with the previous test. . This test represents 40% of the final grade.