

Industrial Management

Calendar: 6th semester

Contact Hours: TP – 37,5; OT – 7,5

Scientific Area: Engenharia Química Industrial

Learning outcomes of the curricular unit

To know and understand the concepts and fundamental principles of business management and industry.
View and interpret systematically the management and organizations
Identify and interpret the key functional areas of an organization and their interdependence
Understanding the technical planning of the operations and management of stocks

Syllabus

Cap 1 - INTRODUCTION TO MANAGEMENT

The management and managers.
The evolution of management theory.
The external organizations.
Social responsibility and ethics.

Cap 2 - ORGANIZATION

Organizational structure.
Authority. delegation. Decentralization .

Cap 3 - HUMAN RESOURCE MANAGEMENT

The process of Human Resources Management.
Motivation and performance.

Leadership.

Groups and teams.

Cap 4 - MARKETING

The role of Marketing.
The political marketing.

Cap 5 - ACCOUNTING AND FINANCE BUSINESS

The financial structure.
The economic structure.
Fundamentals of management accounting.

Cap 6 - MANAGEMENT OF PRODUCTIVE ACTIVITIES

Definition of operations management.

The function of operations.

Production environments.

Process technologies.

New production technologies.

Cap 7 - MANAGEMENT OF STOCKS

Definitions and objectives.

Costs.

Classic models.

Cap - 8 TECHNICAL PLANNING AND PROGRAMMING

Gantt charts

Demonstration of the syllabus coherence with the curricular unit's objectives

The program content is consistent with the goals expected for curricular unit, namely the 1st chapter gives it a historical perspective of management and organizations' development. In chapter 2 and 3, students learn about the organizational structure and human resources. In chapter 4 and 5, students learn the basics of marketing and become aware of the financial and economic structure. In chapter 6 to 7, students become aware on how to make the management of production processes and stocks. Finally in chapter 8 students learn techniques for planning and scheduling.

The contents are discussed based on a dynamic display of matter and solving practical examples of the laboratory and industry.

Teaching methodologies :

Lectures based on practical examples and application exercises.

Evaluation: Students can opt for continuous evaluation and Final Exam with 100% weight in the final assessment.

The minimum score is 10 points (range 0-20 points).

Demonstration of the coherence between the teaching methodologies and the learning outcomes.

The teaching methodologies are consistent with the objectives of the curricular unit as the theoretical part will enable the acquisition of solid knowledge and exercise solving will instill students with the consolidation thereof. The evaluation system was designed to measure the extent to which skills have been developed, based on the two tests or the final exam.