

PRODUCTION PREPARATION AND INDUSTRIAL MANAGEMENT

Code: 312073

Main Scientific Area: Business Management and Administration

Lecturer: Luís Miguel Pinto de Queirós

Language of Instruction: Portuguese

Regime: S1

Contact Hours: 60h Total Workload: 105h

ECTS: 6,0

Objectives

The Production Preparation and Industrial Management curricula aims to introduce students to the importance of preparing and managing of production and its impact on streamlining and optimization of production processes.

Learning Outcomes

Students will have the knowledge to, under guidance, collaborate in the planning, organization and coordination of production processes and their resources (human, technological, material, knowledge, financial) in order to adapt the production system to the market and customer needs.

Course Contents

Production Preparation

- Realization of a product
- Process Planning
- Process Plan
- Identification of part characteristics and process selection
- Process sequence
- Process Modeling
- Planning bill of materials
- Chain and flow diagrams
- Capacity, efficiency and effectiveness
- Costing and budgeting

Industrial management

- Company
- Business strategy
- Functions in a company
- Organizational structures
- Production systems ·Project planning and control

Recommended Bibliography

Apontamentos da aula

Learning and Teaching Methods

The syllabus was developed to address the 2 general themes of the UC:

- o Production Preparation: translation of product requirements established by the manufacturing design, translation of these requirements into process specifications in a process plan and transcription of those specifications into the production plan.
- o Industrial Management: Understand the interconnection and alignment between the specifics of the metalworking sector and the architecture and dynamics of sector organizations

Assessment Methods

The evaluation of the course will take into consideration:

- o 20% intermediate presentation;
- o 50% grade of the work;
- o 30% final test.

The minimum grade in each evaluation element will be 8.5 values.

Success in the course unit is granted when the final evaluation is 9.5 or higher. A scale of 0 to 20 values is considered.