

TRAINERSHIP

Code: 322127

Main Scientific Area: Mechanics and industrial processes

Lecturer: Gabriela Alexandra Correia Pinto de Araújo Viana

Language of Instruction: Portuguese

Regime: S2

Contact Hours: 840h Total Workload: 0h

ECTS: 30,0

Objectives

Training in the context of work, carried out through an internship, has a fundamental objective the application of the knowledge and knowledge acquired, throughout the cycle of studies, within the scope of general, scientific and technical training components. It is intended, therefore, that students reinforce such knowledge, skills and attitudes, through carrying out, under guidance, practical activities of the professional profile, using the necessary techniques and instruments for this purpose.

Learning Outcomes

In general terms, training in the workplace aims to ensure:

- Organizational skills;
- Ability to solve problems in a real work environment;
- Personal autonomy in internship development;
- Combined application of specific skills acquired over the course of studies.

The following aspects should be considered:

- 1 - Provide the improvement, through direct contact with the reality of the world of work, of the specific professional knowledge and skills acquired during the course attendance;
- 2 - Provide the development of attitudes and behaviors that facilitate future socio-professional integration;
- 3 - Develop work habits and a sense of professional responsibility;
- 4 - Apprehend precepts and rules inherent to human relations at work;
- 5 - Develop team spirit;
- 6 - Develop the capacity for initiative and entrepreneurial spirit;
- 7 - Reflect on the practice of practice through the exercise of evaluation;

8 - Provide the development of creativity and receptivity to scientific and technical innovation.

Course Contents

In order to achieve the objectives inherent to the accomplishment of the training component in the work context, the student should, under guidance, ensure the performance of activities that fit the specific objectives of his study cycle during the internship period.

Depending on the stage developed, including:

- 1 - Integration in the work team;
- 2 - Tasks performed;
- 3 - Applied skills and acquired skills;
- 4 - Assessment of the host organization;
- 5 - Self-assessment of your professional performance.

Recommended Bibliography

- DAVIM, J.P., Princípios da Maquinagem, Livraria Almedina, 1995.
- GERLING, H., A Volta da Máquina – Ferramenta, Editorial Reverte, 1997.
- RELVAS, C.; Controlo Numérico Computorizado: Conceitos Fundamentais; Engebook; 2018.
- SILVA, S.; CNC - Programação de Comandos Numéricos Computadorizados; Érica; 2008.
- CNC-Programming-Handbook-Third-Edition
- Modern Metal Cutting - a practical handbook
- Machine Tool Practices, 7th Edition, Richard Kibbe, John Neely, Roland Meyer, Warren White, Prentice Hall, 2001, ISBN 0-13-033447-2
- Mechanics of Chip Formation, J.T. Black, Auburn University;ZASMHBAA0002117
- L. Veiga da Cunha, Desenho Técnico, 11ª Edição, Fundação Calouste Gulbenkian.
- Simões Morais, Desenho Técnico Básico, Vol. III, Porto Editora
- F. E. Giesecke et al., Technical Drawing, 11th Edition, Prentice Hall, 2000.

Learning and Teaching Methods

The assessment is carried out in a work context with the involvement of an entity supervisor and the advisor defined by the IPCA. After completing the 840 hours of internship, the student defends his internship report, in public tests

with the participation of the supervisor, advisor and course director.

Assessment Methods

The evaluation will be carried out in accordance with the Interns and Projects Regulations of the Escola Técnica Superior Profissional. In short, the evaluation of the internship is carried out through public tests, with the following parameters:

- a) Technical assessment with a weighting of 30%, to be attributed by the internship supervisor;
- b) Internship report with a weighting of 15%, to be attributed by the internship supervisor;
- c) Internship dossier with a weighting of 10%, to be assigned by the internship supervisor.
- d) Public defense of the internship report with a weighting of 45%, to be attributed by the jury composed by the course director, advisor and internship supervisor.