

Course Unit	Final Project		Field of study	Project	
Bachelor in	Mechanical Engineering		School	School of Technology and Management	
Academic Year	2022/2023	Year of study	3	Level	1-3
Type	Semestral	Semester	2	ECTS credits	6.0
Code	9123-759-3202-00-22				
Workload (hours)	162	Contact hours	T -	TP -	PL -
			TC -	S -	E -
			OT 60	O -	

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) João da Rocha e Silva

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Apply and consolidate all knowledge acquired in various scientific fields of solids mechanics, heat transfer, maths, mechanical technology, materials and fluids.
2. Design, implement and execute a project in laboratories, institutions and / or businesses, through mentoring guidance from the university.
3. Incorporate, with anticipation to the professional work, the knowledge, perspectives, studies and the acquired expertise. Search and collect relevant information in literature.
4. Produce reports. Develop the skills of an oral and written communication, to discuss with critical and sustained opinion the proposals and results.
5. Develop and consolidate the skills of self-learning and teamwork. Demonstrate ability to solve problems with new challenges.
6. Know and understand the ethical issues, ethics and standards / regulations / etc. associated with professional practice.

Prerequisites

Before the course unit the learner is expected to be able to:

Solve and identify problems in all scientific areas of mechanical engineering course.

Course contents

Technical writing of reports. Delivery of professional quality presentations. Design and methodology. Creativity. Safety. Liability, standards and ethics codes utilization. The projects are within the mechanical engineering and its scientific areas.

Course contents (extended version)

- Each project is submitted by a supervisor, by a working plan with all contents and tasks chronogram.

Recommended reading

Função de cada projeto / Defined in function of each project.

Teaching and learning methods

The methodology of learning is based in a project, a single project, sufficiently integrated and comprehensive and based on their detailed specification. The contact hours will allow to the students to have help and learn the project content, that will enable them learning outcomes and competences.

Assessment methods

1. Public presentation of report - (Regular, Student Worker) (Final, Supplementary)
2. Public presentation of report - (Regular, Student Worker) (Final, Supplementary)

Language of instruction

1. Portuguese
2. Portuguese, with additional English support for foreign students.

Electronic validation

João da Rocha e Silva	João Eduardo Pinto Castro Ribeiro	Luís Manuel Ribeiro Mesquita	José Carlos Rufino Amaro
16-02-2023	16-02-2023	17-02-2023	04-03-2023