

Course Unit	Thesis/Final Project/Internship		Field of study	Mechanical Engineering	
Master in	Industrial Engineering - Mechanical Engineering		School	School of Technology and Management	
Academic Year	2022/2023	Year of study	2	Level	2-2
Type	Annual	Semester	-	ECTS credits	42.0
Code	9572-356-2001-00-22				
Workload (hours)	1 134	Contact hours	T -	TP 20	PL -
			TC -	S 40	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) Carlos Jorge da Rocha Balsa, José Alexandre de Carvalho Gonçalves, João Eduardo Pinto Castro Ribeiro

Learning outcomes and competences

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

1. Demonstrate knowledge in research methodologies.
2. Identify and be aware of the importance of innovation in engineering.
3. Demonstrate knowledge of the state of the art in a R&D or industrial application topic of Industrial Engineering.
4. Perform a R&D project or a traineeship in academic or professional environment,
5. The publication of the results is done through the writing of a dissertation or a final project or internship.

Prerequisites

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

Understand the major phenomena and technologies of Industrial Engineering.

Course contents

Seminars. Development of a dissertation/project/traineeship work.

Course contents (extended version)

1. Seminars
 - Attendance to seminars in Industrial Engineering, specialization area of Mechanical Engineering.
2. Dissertation/project/traineeship
 - Development of a scientific research dissertation.
 - Development of a project work or a professional traineeship.
 - Publications in the area of Industrial Engineering, specialization domain of Mechanical Engineering.

Recommended reading

Cada proposta de trabalho deve apresentar uma lista de bibliografia específica recomendada. Each work proposal must have a specific recommended bibliography.

Teaching and learning methods

Tutorial guidance throughout the academic year that follows the work of dissertation/project/traineeship.

Assessment methods

- Alternative 1 - (Regular, Student Worker) (Final, Supplementary, Special)
 - Presentations - 25% (Quality of public presentation, defined by the regulatory rules of IPB Masters.)
 - Reports and Guides - 75% (Quality of Scientific / technical work, defined by the rules of IPB masters.)

Language of instruction

1. Portuguese
2. English

Electronic validation

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22-02-2023	23-02-2023	26-02-2023	04-03-2023