Course Unit	Dissertation, Project Work, Internship			Field of study	Electrical and Computer Engineering
Master in	Electrical and Computers Engineering			School	School of Technology and Management
Academic Year	2023/2024	Year of study	2	Level	2-2	ECTS credits	42.0
Type	Annual	Semester	-	Code	5070-792-2001-00-23		

Workload (hours)	1 134	Contact hours	T	TP	PL	TC	S	E	OT	O
			-	-	-	-	20	-	100	-

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 Paulo Ramos Teixeira, Paulo Jorge Pinto Leitão, Rui Pedro Sanches de Castro Lopes

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. Identify and interpret the importance of innovation for the engineering and technological entrepreneurship activities.
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 Electrical and Computers Engineering.
4. Perform a R&D project or a traineeship in academic or professional environment, with the publication of achieved results using a thesis dissertation or a final report.
5. Implementation of a technician-scientific research in academic or professional environment.
6. 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 Electrical and Computers Engineering.

Course contents

Seminars. Development of a dissertation/project/traineeship work. Creation of technology based enterprises.

Course contents (extended version)

1. Seminars
   - Attendance at seminars in Electrical and Computers Engineering.
   - Seminars on entrepreneurship applied to the conception of technology based enterprises.
2. Dissertation/project/traineeship
   - Development of a scientific research dissertation.
   - Development of a project work or a professional traineeship.
   - Publications in the area of Electrical and Computers Engineering.

Recommended reading

Cada proposta de trabalho deve apresentar uma lista de bibliografia recomendada.

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

João Paulo Ramos Teixeira, Paulo Jorge Pinto Leitão, Rui Pedro Sanches de Castro Lopes	José Luís Sousa de Magalhaes Lima	José Carlos Rufino Amaro
21-02-2024	27-02-2024	02-03-2024