INSTITUTO POLITÉCNICO DE BRAGANÇA

Course Unit	Final Project/Internship			Field of study	Construction Engineering		
Master in	Construction 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	5024-419-2001-00-23		

Workload (hours)	1 134	Contact hours	T	TP	PL	TC	S	E	OT	O
			-	-	-	-	-	-	120	-

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): Debora Rodrigues de Sousa Macanjo Ferreira, Manuel Teixeira Brás César, Sílvia Maria Afonso Fernandes

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 interpret the importance of innovation for the engineering and technological entrepreneurship activities.
3. Demonstrate knowledge of the state of the art in a R&D or industrial application topic of Construction Engineering.
4. Demonstrate knowledge and skills on current scientific-technical topics of Engineering Construction, focusing on solving practical problems of engineering with the approach to new situations.
5. Perform a work with integrating nature, original and resulting from activities conducted in academic or professional environment, with practical application of knowledge from the C. U. of the course.
6. Preparation and publication of a final project or internship integrating the results of the work perfomed in academic or professional environment

Prerequisites

Before the course unit the learner is expected to be able to:
Understand and know the major concepts and technologies of Construction Engineering.

Course contents

Research methodologies. Seminars. Scientific research work or professional environment work.

Course contents (extended version)

1. Research methodologies
   - Processes, methodologies and practices associated to scientific research in the area of engineering.
2. Conception of technology based enterprises
   - Identification of technological innovation opportunities and their market valorisation.
3. Seminars
   - Seminars lectured by scientists or professionals in specialization area of Construction Engineering.
4. Project/traineeship
   - Development of a project work or a professional traineeship, with publication of results.

Recommended reading

Cada proposta de trabalho deve apresentar uma lista de bibliografia recomendada

Teaching and learning methods

Seminars about latest developments in the area of Construction Engineering. Tutorial guidance throughout the academic year that follows the work of project/traineeship.

Assessment methods

- Public defense of the work, in jury - (Regular, Student Worker) (Final, Supplementary, Special)
  - Projects - 100% (Evaluation of the final report of Project / Placement in accordance with Regulation of the Master.)

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

Debora Rodrigues de Sousa Macanjo Ferreira, Manuel Teixeira Brás César, Sílvia Maria Afonso Fernandes	Flora Cristina Meireles Silva	António Miguel Verdelho Paula	José Carlos Rufino Amaro
06-03-2024	06-03-2024	07-03-2024	09-03-2024