Name	Scientific Initiation Studentship			Field of study	-
Classification	Extracurricular Course/Project			School	Polytechnic Institute of Bragança
Academic Year	2022/2023	Year of study	-	Level	-	ECTS credits	6.0
Type	Semestral	Semester	1	Code	9999-940-1003-00-22

Workload (hours)	162	Contact hours	T	TP	PL	TC	S	E	OT	O
			-	-	-	-	-	140	-	-

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): Ana Paula Carvalho do Monte, Ana Isabel Pinheiro Nunes Pereira, Maria Filomena Filipe Barreiro, Vítor Manuel Barrigão Gonçalves

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:
1. Understand concepts of scientific research and working methodologies.
2. Know the dynamics associated with the elaboration and execution of research projects.
3. Interpret scientific texts, by identifying their contribution to research.
4. Use scientific and technological databases.
5. Structure scientific work, namely at the level of experimental execution, and writing of scientific reports and articles, and use data survey and analysis techniques.
6. Integrate research teams, expressing interest, cooperation and empathy.
7. Recognize and apply ethical procedures inherent to research.
8. Use techniques for an efficient dissemination of results.

Prerequisites

Before the course unit the learner is expected to be able to:
Without specific requirements.

Course contents

The Course Unit of Research Integration aims to provide undergraduate students with a first contact with research activities, namely through their integration in ongoing research projects at the IPB research units. This will allow the student to develop scientific thinking and creativity, and learn research techniques and methods. The work will be developed individually although integrated in research teams.

Course contents (extended version)

1. Week 1. Dissemination of project offers. Visit to the IPB research units.
2. Week 2, 3. Contact with the selected project. Starting of the research activities.
3. Week 4. Presentation of the selected projects by the students.
4. Week 5-8. Development of research activities.
5. Week 9. Presentation of the achieved partial results.
6. Week 10-13. Development of research activities.
7. Week 14. Presentation of the final results.

Recommended reading

Bibliografia específica das áreas em que se inserem os projetos de investigação.

Teaching and learning methods

This curricular unit follows a logic of practice-based learning and problem-based learning. Although supervised, student's creativity and autonomy will be fundamental.

Assessment methods

- Alternative 1 - (Regular, Student Worker) (Final, Supplementary, Special)
  - Presentations - 10% (Presentation of the project (week 4, evaluated by the evaluation panel).)
  - Presentations - 20% (Presentation of partial results (week 9, evaluated by the evaluation panel).)
  - Presentations - 20% (Presentation of the final results (week 14, evaluated by the evaluation panel).)
  - Work Discussion - 10% (Peer evaluation (to be collected at the end of the course unit).)
  - Projects - 40% (Evaluation by the supervisor (to be collected at the end of the course unit).)

Language of instruction

1. Portuguese
2. English

Electronic validation

Ana Paula Carvalho do Monte	Vera Alexandra Ferro Lebres
22-11-2022	23-11-2022

This document is valid only if stamped in all pages.