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Course Unit	-
Master in	Teaching of the First Cycle, Mathematics and Natural Sciences in the Second Cycle
Field of study	-
School	School of Education

Academic Year	2022/2023	Year of study	2	Level	2-2
ECTS credits	4.0				
Type	Annual	Semester	-	Code	5044-763-2002-00-22

Workload (hours)	108	Contact hours	T	-	TP	28	PL	-	TC	-	S	-	E	-	OT	8	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): Adorinda Maria Rodrigues Pereira S. Gonçalves, Manuel Celestino Vara Pires, Maria do Céu Ribeiro

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:
1. Analyse the adequacy of the intervention and research project on supervised teaching practice.
2. Implement the intervention and research project, contextualizing and deepening the problem to be studied.
3. Resort to educational research methodologies for a better analysis and understanding of the teaching and learning practices.
4. Use techniques and instruments of observation, registration, documentation and evaluation of the teaching and learning process.
5. Substantiate teaching and learning experiences in a reflective and investigative perspective on the educational practice.
6. Mobilize scientific, pedagogical and didactical knowledge to support a reflective and investigative professional performance and the improvement of the students learning.

Prerequisites

Before the course unit the learner is expected to be able to:
1. Relate and use concepts related to science education.
2. Relate and use concepts and procedures related to disciplinary knowledges.

Course contents

1. Context of the final internship report(s) (FIR). 2. From the project to the final internship report. 3. Planning and writing of the final internship report(s).

Course contents (extended version)

1. Context of the internship's final report(s).
   - Educational research, reflection and research on practice.
   - Teaching and learning (TL) issues.
   - Collecting and analyzing data in context.
2. From the project to the final internship report.
   - Presentation of the intervention and research project(s).
   - Deepening of the problem to be studied.
3. Planning and writing of the final internship report(s).
   - Development of theoretical and methodological frameworks.
   - Selection and organization of TL experiences taking into account the specificities of each project.
   - Processing and analysis of data collected in supervised teaching practice.

Recommended reading

1. Amado, J. (Coord.). (2017). Manual de investigação qualitativa em educação. (3.ª ed.). Imprensa da Universidade de Coimbra.
2. Bogdan, R., & Biklen, S. (2013). Investigação qualitativa em educação. Porto Editora.
3. Martins, I. et al. (2006). Educação em ciências e ensino experimental. DGIDC, Ministério da Educação.
4. Mesquita, E., Roldão, M. C., & Machado, J. (Orgs.) (2019). Prática supervisionada e construção do conhecimento profissional. Fundação Manuel Leão.
5. Ponte, J. P. (2014) (Org.). Práticas profissionais dos professores de matemática. IE, Universidade de Lisboa.

Teaching and learning methods

1. Content and classroom episodes exploration using, for example, reading, writing and texts discussions or analysis of classroom situations and other teaching and learning materials. 2. Discussions of themes and classroom episodes in small or large group. 3. Individual or small group work.

Assessment methods

1. Continuous assessment - (Regular, Student Worker) (Final)
   - Projects - 25% (Intervention and research project – writing and oral presentation)
   - Portfolio - 60% (Writing and oral presentations throughout the writing process of the final internship report.)
   - Work Discussion - 15% (Participation in the classroom's dynamics.)
2. Assessment by examination [not applicable] - (Regular, Student Worker) (Supplementary, Special)

Language of instruction

Portuguese

Electronic validation

Adorinda Maria Rodrigues Pereira S. Gonçalves, Manuel Celestino Vara Pires, Maria do Céu Ribeiro	Maria do Céu Ribeiro	Manuel Celestino Vara Pires	Carlos Manuel Costa Teixeira
12-12-2022	12-12-2022	12-12-2022	02-01-2023