

Course Unit	rse Unit Environmental Education Research			Field of study	Educational Sciences		
Bachelor in	Environmental Education			School	School of Education		
Academic Year	2021/2022	Year of study	2	Level	1-2	ECTS credits	8.0
Туре	Annual	Semester		Code	9082-620-2002-00-21		
Workload (hours)	216	Contact hours			C - S - solving, project or laboratory; TC	E - OT Fieldwork; S - Seminar; E - Place	18 O - ement; OT - Tutorial; O - Other

Name(s) of lecturer(s)

Maria do Céu Ribeiro

Learning outcomes and competences

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

- Acquire concepts and methodological aspects of instrumentation, data collection, data analysis and interpretation in studies of a qualitative or quantitative nature; Develop research projects and research reports;
- Perform data processing, qualitative and quantitative, using appropriate computer resources;
 Present results and conclusions from an investigation.

Prerequisites

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

Not applicable

Course contents

1. Scientific research. 2. Planning and design of a research. 3. Scales of measurement. 4. Processing and interpretation of data.

Course contents (extended version)

- 1 Scientific research
 - Basic concepts in research
 - Importance of the scientific research
 Ethical questions in research

 - Paradigms of research
 Methods of research
 - Classification of research
- Planning and design of a research
 Construction and discussion of research projects
 - Definition of the problem Literature review
 - Research methodology
 - Research results
 - Conclusion of the research
- Research report
 Scales of measurement
 Structure of the measurement process
- Variables
 Types of scales of measurement of variables and their properties
 Processing and interpretation of data
 Data: Qualitative and quantitative

 - Techniques for data collection
 Samples and its characterization

 - Content analysis
 - Organization, interpretation and presentation of data
 Use of appropriated computing resources (Excel, NVivo, SPSS)

Recommended reading

- Bardin, L. (2015). Análise de conteúdo (4. ª Ed.). Edições 70.
 Creswell, J. (2014). Research design: Qualitative, quantitative, and mixed methods approaches (4th Ed.). SAGE Publication Ltd.
 Pestana, M., & Gageiro, J. (2014). Análise de dados para ciências sociais. A complementaridade do SPSS. (6. ª Ed.). Edições Sílabo.
 Coutinho, M. (2011). Metodologia de investigação em ciências sociais e humanas, teoria e prática. Almedina.
 Marconi, M., & Lakatos, E. (2017). Metodologia científica (7. ª Ed.). Edições Atlas.

Teaching and learning methods

Exploration of themes using active learning methodologies, including project-based learning and problem-based learning. Preparation of reports or research papers. Discussion of topics in small or large groups. Individual work or collaborative work. Resolution of consolidation tasks of the topics covered in the course.

Assessment methods

- Continuous assessment (Regular, Student Worker) (Final)

 Intermediate Written Test 60% (Two summative written tests)
 Work Discussion 40% (Implementation and discussion of de proposed tasks or individual or group works)

 Assessment by examination (Regular, Student Worker) (Supplementary, Special)

 Final Written Exam 100% (Written test about course contents)

Language of instruction

Portuguese, with additional English support for foreign students

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Electronic validation				
Maria do Céu Ribeiro	Maria Angelina Sanches	Paulo Miguel Mafra Gonçalves	Carlos Manuel Costa Teixeira	
03-11-2021	05-11-2021	02-12-2021	02-12-2021	