

|                  |                                   |               |                |                     |      |
|------------------|-----------------------------------|---------------|----------------|---------------------|------|
| Course Unit      | Research Methodology in Education |               | Field of study | General Education   |      |
| Bachelor in      | Basic Education                   |               | School         | School of Education |      |
| Academic Year    | 2023/2024                         | Year of study | 1              | Level               | 1-1  |
| Type             | Semestral                         | Semester      | 1              | ECTS credits        | 4.0  |
| Code             | 9853-531-1103-00-23               |               |                |                     |      |
| Workload (hours) | 108                               | Contact hours | T -            | TP 36               | PL - |
|                  |                                   |               | TC -           | S -                 | E -  |
|                  |                                   |               | OT 9           | 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) Elza da Conceição Mesquita

### Learning outcomes and competences

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

1. Acquiring methodological concepts of instrumentation, collection, analysis and interpretation of data in studies supported a qualitative, quantitative and mixed approach;
2. Perform processing data from investigations of a qualitative and a quantitative nature;
3. Decide on the research planning, design and direction regarding a particular problem;
4. 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. Research in education. 2. Planning and design of a research in education. 3. Qualitative research. 4. Quantitative research.

### Course contents (extended version)

1. Research in education
  - The importance of research in education
  - Ethical issues in research
  - Qualitative, quantitative and mixed research: techniques of data collection
2. Planning and design of a research in education
  - Construction and discussion of research projects in education
  - Introduction
  - Research design
  - Literature review and bibliography
  - Executing the research design
  - Results and conclusions of the investigation
  - Reflections, limitations and suggestion for future research
  - How to write a scientific work
3. Qualitative research
  - Qualitative data
  - Research questions
  - Content analysis: Unit of analysis and categories
  - Processing and interpretation of qualitative data
4. Quantitative research
  - Quantitative data
  - Research hypotheses
  - Samples and their characterization
  - Processing and interpretation of quantitative data

### Recommended reading

1. Bardin, L. (2014). *Análise de conteúdo* (4.ª Ed.). Edições 70.
2. Estrela, A. (2015). *Teoria e prática de observação de classes. Uma estratégia de formação de professores*. Porto Editora.
3. Flick, U. (2013). *Métodos qualitativos na investigação científica*. Monitor.
4. Reis, F. L. (2018). *Investigação científica e trabalhos académicos: Guia prático*. Edições Sílabo.
5. Vilelas, J. (2017). *Investigação: O processo de construção do conhecimento* (2.ª Ed.). Edições Sílabo.

### Teaching and learning methods

Content exploration using, for example, explanation processes, writing reports or researching work. Discussion of themes in small or large groups. Individual or group work. Resolution of tasks of different type and nature.

### Assessment methods

1. Continuous assessment - (Regular, Student Worker) (Final)
  - Intermediate Written Test - 60% (Written summative test)
  - Work Discussion - 40% (Implementation and discussion of de proposed tasks, individual or group works.)
2. Exam evaluation - (Regular, Student Worker) (Supplementary, Special)
  - Final Written Exam - 100%

### Language of instruction

1. Portuguese
2. Portuguese, with additional English support for foreign students.

| Electronic validation      |                      |  |                              |
|----------------------------|----------------------|--|------------------------------|
| Elza da Conceição Mesquita | Maria do Céu Ribeiro | Maria Cristina do Espírito Santo Martins | Carlos Manuel Costa Teixeira |
| 29-11-2023                 | 11-12-2023           | 02-01-2024                               | 11-02-2024                   |

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