

### Caraterização da Unidade Curricular / Characterisation of the Curricular Unit

<b>Designação da Unidade Curricular / Curricular Unit:</b>	[708520813] Metodologias de Investigação e Estatística		
<b>Plano / Plan:</b>	PLANO CMER - A PARTIR DE 2023/2024		
<b>Curso / Course:</b>	Mestrado em Enfermagem de Reabilitação Rehabilitation Nursing		
<b>Grau / Diploma:</b>	Mestre		
<b>Departamento / Department:</b>	ENFERMAGEM		
<b>Unidade Orgânica / Organic Unit:</b>	ESCOLA SUPERIOR DE SAÚDE DE VISEU		
<b>Área Científica / Scientific Area:</b>	Enfermagem		
<b>Ano Curricular / Curricular Year:</b>	1		
<b>Período / Term:</b>	S2		
<b>ECTS:</b>	3		
<b>Horas de Trabalho / Work Hours:</b>	0075:00		
<b>Horas de Contacto/Contact Hours:</b>			
(T) Teóricas/Theoretical:	0015:00	(TC) Trabalho de Campo/Fieldwork:	0000:00
(TP) Teórico-Práticas/Theoretical-Practical:	0015:00	(OT) Orientação Tutorial/Tutorial Orientation:	0000:00
(P) Práticas/Practical:	0000:00	(E) Estágio/Internship:	0000:00
(PL) Práticas Laboratoriais/Practical Labs:	0000:00	(O) Outras/Others:	0000:00
(S) Seminário/Seminar:	0000:00		

### Docente Responsável / Responsible Teaching

[5018] Maria Madalena De Jesus E Cunha Nunes

### Outros Docentes / Other Teaching

[5021] António Madureira Dias

### **Learning Outcomes of the Curricular Unit**

In general, we intend that students acquire knowledge of the general principles of research and statistics as well as knowledge and skills in the use of statistical analysis programs.

Relate levels of evidence and degrees of recommendation with the safety and quality of nursing care;

Differentiate the theoretical-methodological options and the stages that characterize primary research (quantitative and qualitative) and secondary research;

Understand the methodological strategies and techniques to support the elaboration of a protocol and a research project;

Interpret probabilistic models to support statistical inference, the interpretation of confidence intervals and the formulation and testing of hypotheses;

Use software to support statistics.

## Syllabus

Research process and its characteristics

Methodological research strategies: quantitative/qualitative paradigm

Primary investigations: The research project: its design and components

Stages of research protocols and strategies

Elements of the research report

Secondary investigations (Scoping review and RSL)

Evidence-based practice: concepts and steps

Methodology of data analysis Descriptive/ inferential statistics - statistical programs

Parametric and non-parametric test assumptions

Presentation and analysis of qualitative and quantitative data

Communication of research results

### **Demonstration of the syllabus coherence with the curricular units' learning objectives**

This This curricular unit presupposes the use of active methods in which the syllabus is in line with the objectives, given that:

They are arranged according to a coherent and coordinated order, in a systemic logic

The presentation of examples of type studies and use of different methodologies enables a more adequate explanation and conjunction of knowledge with the remaining CUs of the course

The programme associates concepts and contents leading to the creation and implementation of research methodologies and the dynamics leading to the development of research projects

The presentation of the best evidence/level of recommendation, coupled with the discussion of scenarios, enables showing the best health care practices

The explanation of current issues and challenges in nursing enables understanding the lines of research in the field of nursing and health in general, as well as identifying the areas which require additional research.

### **Teaching Methodologies (Including evaluation)**

The assessment follows the course regulations.

The form of assessment will be presented at the beginning of the course unit based on one of the following proposals: individual written test (100%) or development of group/individual work and written test, being the individual written test (50%) and the development of individual/group work, with presentation (50%).

The work may include the development of a research project or database analysis with calculations and interpretation of results.

The final mark results from the mark of the individual written test or the arithmetic mean of the partial results of the two moments of formal evaluation. The approval of the curricular unit presupposes a classification higher than or equal to 10 points.

For students who do not pass the course unit, the normal and appeal examination is foreseen. Assessment by examination: individual written test, graded 20 points, covering the entire syllabus of the course.

### **Demonstration of the coherence between the teaching methodologies and the learning outcomes**

The teaching and learning methodology is linked to the objectives of the UC.

The content taught in T and TP classes, with dynamic expository methodologies, promotes the active participation of students.

They will be combined with database research and critical analysis of research articles. In theoretical classes, the expository method is privileged, the explanation of concepts, the debate and analysis of rehabilitation nursing articles and the issues of interest to students facilitate their participation and the exemplification of scientific evidence of rehabilitation nursing.

TP classes focused on solving practical exercises and using the statistical program allow you to apply the content taught and develop critical and reflective thinking that generates skills.

During autonomous work hours, students will be guided to carry out individual or group work, such as creating and analyzing a simple database or preparing a research project.

### **Bibliografia / Bibliography**

\*Cunha, M. & Santos, E. (2021). *Revisão Sistemática da Literatura com Meta-análise: um guia prático para iniciantes*. Portugal: Edições Esgotadas, Lda.

Gonçalves, S.P., Gonçalves, J.P., & Marques, C. G. (2021). *Manual de investigação qualitativa: Conceção, análise e aplicações*. Lisboa: Pactor

Marôco, J. (2021). *Análise estatística com utilização do SPSS 8ª ed.* Pêro Pinheiro: Report Number Lda

Mota, M., ? Cunha, M. (2022). Management of bleeding in trauma victims by Portuguese nurses in prehospital setting. *Australian Journal of Advanced Nursing* 39 2 (2022)

\*Pina, J., Veiga-Branco, M. A., Cunha, M., et al. (2020). Clinical efficacy questionnaire and evidence-based practice: confirmatory factorial analysis in a nurse sample. *Millenium*, 2(5e), 137?145.

Polit, D.F., & Beck, C.T. (2019). *Fundamentos de pesquisa em enfermagem: Avaliação de evidências para a prática de enfermagem (9ª ed.)*. Porto Alegre: Artmed