



Course Unit: 400357 - Research

Year 2 Semester 4 ISCED Code: 915 ECTS: 7,5

Type of Course Unit: Compulsory Delivery Mode: Face-to-face Language of Instruction: Portuguese

COURSE COORDINATOR: Rogério Ferrinho Ferreira

HOURS OF WORK

TOTAL HOURS	Contact Hours								Hours in autonomous work
	Theory	Theory and practice	Practical and laboratory work	Field work	Seminar	Internship	Tutorial guidance	Other	
187,5	60	30	-	-	-	-	-	-	97,5

Prerequisites (if applicable):

LEARNING OUTCOMES (knowledge, skills and competence)

- Reflect on the importance of research in Therapy
- Identify the main characteristics of quantitative and qualitative approaches
- Describe each step of the research process
- Critically analyze a research problem
- Define the main objectives of the literature review
- Identify the elements to be taken into account in establishing a framework
- Critically analyze the aims, research questions and hypotheses
- Identify key ethical issues in research
- Distinguish between different forms of design research
- Characterize the experimental and non-experimental
- Characterize the different types of sample to be used in a research study
- Critically analyze the information on reliability and validity of measuring instruments
- Critically analyze the section dealing with measuring instruments for research papers

CONTENTS

- Module I - Introduction
 - Introduction and Research Fundamentals
 - Quantitative and qualitative approaches
 - The steps of the research process
- Module II - The Conception Study
 - The choice of the subject of study and the preliminary question
 - A review of the literature and the reference framework
 - The research problem formulation

- The statement of the objective of the research questions and hypothesis
- The ethics of research

Module III - Research Methodology

- The research design
- Sampling
- The measurement principles

- Data collection methods

- The ethics of research

Module IV - The Research Results

- Data analysis
- The presentation, analysis and interpretation of results
- The communication of results

Module V - The review of research papers

Methodology in the critical analysis of a scientific article

DEMONSTRATION OF THE CONTENTS COHERENCE WITH THE COURSE UNIT'S LEARNING OUTCOMES

For each content module defined several learning objectives, directly related. It is expected that the topics at different approach allows students concepts and understanding by way of addition, its applicability in the analysis of some research papers, properly selected. A critical analysis of concepts, methodological procedures and analysis used in a research paper, should be held as the course is taught systematically and continuously in order to meet the learning objectives and to foster developing their cognitive skills, in particular its analysis capabilities address the concepts, methods and analysis used in an investigation.

TEACHING METHODOLOGIES

Lectures and theoretical and practical. Interactive and lecture method, with slideshow and use of multimedia projector. Presentation and analysis of research papers in the field of occupational therapy.

DEMONSTRATION OF THE COHERENCE BETWEEN THE TEACHING METHODOLOGIES AND THE LEARNING OUTCOMES

The advancement of scientific knowledge in Occupational Therapy involves the realization of research and the use of its findings in the contexts related to their practice. It is from this assumption that the learning objectives for this course were defined in order to provide this health professional powers to be assumed as a consumer research. Hence, the teaching methodologies used assume a symbiosis between lectures, with the explanation of the concepts and procedures and analysis of articles that will be instrumental to the integration of knowledge and contribute to the student learns to criticize the research carried out and to use the knowledge that emerges from it in their practice.

Conducting a trial evaluation will assess the understanding of the concepts and procedures involving the research process, while the analysis of a research paper (group) will allow students to understand the different stages of the research process, the relationship between the same and the scientific quality of a research paper in addition to the development of team work skills inherent in group work.

EVALUATION METHODS

The evaluation will correspond to the performance of tests of knowledge assessment on the contents taught in the classroom and the accomplishment of group work, which involves the critical analysis of a research article and data analysis (statistics).

MAIN BIBLIOGRAPHY

- Bardin, L. (2013). *Análise de conteúdo*. Lisboa:Edições 70, Lda.
- Bogdan, R., & Biklen, S. (2010). *Investigação Qualitativa em Educação – Uma Introdução à Teoria e aos Métodos*. Porto: Porto Editora.
- Cubo Delgado, S., Martín Marín, B., & Ramos Sánchez, J. L. (2011). *Métodos de investigación Y análisis de datos en ciencias sociales y de la salud*. Madrid: Ediciones Pirámide.
- Fortin, M. F., Côté, J., & Filion, F. (2009). *Fundamentos e etapas do processo de investigação*. Lisboa:Lusodidacta.
- Hill, M., & Hill, A. (2008). *Investigação por Questionário*. (2.ª ed.). Lisboa: Edições Sílabo.
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- Maroco, J. (2010). *Análise Estatística com Utilização do Spss*. (3.ª ed.). Lisboa: Edições Sílabo.
- Rosner, B.(2015) *Fundamentals of Biostatistics*. 8th edition. Cengage Learning, Inc

Vilelas, J. (2017). Investigação. O processo de construção do conhecimento. Lisboa: Edições Silabo.

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