



ID	3471
Curricular Unit	Mehodology of Scientific Research
Regent	Duarte Fernando da Rosa Belo Patronilho de Araújo
Learning Outcomes	To develop theoretical competences to the practice of scientific research, through the systematic study of the fundamental processes and specific strategies of planning, realization, analysis, discussion and presentation of results. To afford the theoretical and methodological discussion of the research questions and the problems in the Human Movement domain.
Syllabus	I. Introduction Research in human movement science What is science and scientific research Ethics in scientific research II. Starting research To choose a topic or a problem to research: the questions, the research aims and the means to answer these questions How to use theories and models, and how to conduct a literature review III. How to study the selected topic To choose a method The nature of the research: variables and measurement, validity, reliability and sensibility Representative design: Sampling participants and sampling contexts Data collection IV. Obtained results Describe, present and explore data Interpret and discuss results V. To communicate the research process To write a research project Publish the work on scientific journals
Evaluation	The teaching is both theoretical and practical. The contents are presented as applied to concrete cases of research in the domain of human movement, which in turn are implemented in a research project about a topic selected by the student. Assessment: Students must conduct a research project, according to their choice. The written report should have a maximum of 10 pages including introduction, methods and references. The project should be organized as follows: 1. Introduction: Theoretical rationale under the domain of the Master (post-graduation), description of the aims of the study, and hypothesis formulation; 2. Method: 2.1. Sample; 2.2. Material: description of the documents, tools, equipment etc. used for assessment; 2.3. Procedures; 3. References in APA format (6th Edition); The reports should be delivered in a digital format (or optionally in paper).

Bibliography	 Almeida, L., & Freire, T. (2008). Metodologia da Investigação em Psicologia e Educação (5th Ed). Braga: Psiquilibrios. Carmo, H., & Ferreira, M. (2008). Metodologia da investigação: Guia para auto-aprendizagem (2nd Ed). Lisboa: Universidade Aberta. Nestor, P., & Schutt, R. (2012). Research Methods in Psychology: Investigating Human Behavior. London: Sage. Thomas, J., Nelson, J. & Silverman, D. (2005). Research methods in physical activity (5th Ed). Champaign, II: Human Kinetics.
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