

ID	3027
Curricular Unit	Methodology of Scientific Research
Regent	Pedro Jorge Moreira de Parrot Morato
Learning Outcomes	<p>Introduce the student to scientific thought.</p> <p>About the evolution of scientific thought in Human Kinetics.</p> <p>Mastering fundamental concepts of scientific research: problem, hypothesis, research design, method.</p> <p>Mastering the essential aspects of the scientific method.</p> <p>Know different types of study and the context of its application.</p> <p>Mastering methodological alternatives for the same problem.</p> <p>Mastering APA style for writing manuscript and bibliographic referencing.</p>
Syllabus	<p>I. Introduction</p> <ol style="list-style-type: none"> 1. Research in the science of human movement 2. Definition of science (science and research)? What is the methodology and method? 3. Ethical aspects of scientific research <p>II. Prepare research (what is known about the subject and what remains to)</p> <ol style="list-style-type: none"> 4. Choose a topic/problem to investigate, issues and research objectives and strategies to address these issues (focus on the problem, identify variables, operationally define variables, specify the problem, hypotheses) 5. Employing theories (models, concepts and hypotheses) 6. A literature review <p>III. How to study</p> <ol style="list-style-type: none"> 7. Choose a method (types of research methods, planning, design and procedures) 8. Nature of research:.. Variables and their measurement, validity, faithfulness and sensitivity 9. Representativeness of research:.. Sampling and circumstances (context and task to investigate) 10. Collecting data (data types, data selection, collection types) <p>(...)</p>
Evaluation	<p>1. Continuous Assessment</p> <p>Students who opt for continuous assessment model shall meet the following requirements:</p> <ol style="list-style-type: none"> a) Get at least two thirds of attendance in practical classes; b) Implement a practical group work (orientated during the practical classes) and perform their oral presentation; <p>2. Final Exam</p>

Bibliography

- Green, M. (1989). *Theories of Human Development: A Comparative Approach*. New Jersey: Prentice-Hall.
- Kaplan, HB (1999). Toward an understanding of resilience: A critical review of definitions and models. In MD Glantz & JL Johnson (Eds.), *Resilience and development: Positive life adaptations* (pp. 17-83). New York: Klumer Academic / Plenum Publishers.
- Newman, BM and Newman, PR (2007). *Theories of Human Development*. New Jersey: Lawrence Erlbaum Associates.
- Simões, C. (2005). *Resilience, Health and Development*. In MG Matos (Ed.), *Communication and conflict management and health at school*. Lisboa: CDI / FMH.
- Sugarman, L. (2006). *Life-Span Development: Frameworks, Accounts and Strategies*. New York: Psychology Press.
- Thomas, RM (2001). *Recent Theories of Human Development*. London: Sage.