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| <b>ID</b>                | 3846  |
| <b>Curricular Unit</b>   | Methodology of Scientific Research  |
| <b>Regent</b>            | Pedro Jorge Moreira de Parrot Morato  |
| <b>Learning Outcomes</b> | <p>Introduce the student to scientific thought.<br/>           About the evolution of scientific thought in Human Kinetics.<br/>           Mastering fundamental concepts of scientific research: problem, hypothesis, research design, method.<br/>           Mastering the essential aspects of the scientific method.<br/>           Know different types of study and the context of its application.<br/>           Mastering methodological alternatives for the same problem.<br/>           Mastering APA style for writing manuscript and bibliographic referencing.</p>   |
| <b>Syllabus</b>          | <p>I. Introduction<br/>           1. Research in the science of human movement<br/>           2. Definition of science (science and research)? What is the methodology and method?<br/>           3. Ethical aspects of scientific research<br/>           II. Prepare research (what is known about the subject and what remains to)<br/>           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)<br/>           5. Employing theories (models, concepts and hypotheses)<br/>           6. A literature review<br/>           III. How to study<br/>           7. Choose a method (types of research methods, planning, design and procedures)<br/>           8. Nature of research:.. Variables and their measurement, validity, faithfulness and sensitivity<br/>           9. Representativeness of research:.. Sampling and circumstances (context and task to investigate)<br/>           10. Collecting data (data types, data selection, collection types)<br/>           (...)</p> |
| <b>Evaluation</b>        | <p>1. Continuous Assessment<br/>           Students who opt for continuous assessment model shall meet the following requirements:<br/>           a) Get at least two thirds of attendance in practical classes;<br/>           b) Implement a practical group work (orientated during the practical classes) and perform their oral presentation;<br/>           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.