TEACHING PLAN

1. IDENTIFICATION

Course: Advanced studies in research  
Code: DEF410048  
Number of Credits: 04 Theoretical Credits  
Workload: 60 hours/class  
Level: Masters and PhD in Physical Education

2. SYLLABUS

Introduction to research design, scientific writing, presentation at international conferences and publication in international scientific peer-reviewed journals. Ongoing student publications will be discussed with regards to scientific writing, submission, revision, and resubmission to international journals. Presentation guidelines will be provided for successful and impactful preparation of scientific talks (at conferences and seminars), as well as how to answer questions and handle conflicts that may arise in the execution of science, when publishing and when presenting.

3. OBJECTIVES

- This course will expose students to effective choice of research topics, appropriate ways of designing research studies and the ethics and integrity of data collection and analysis
- This course will expose students to practical problems in research design, scientific writing of a peer-reviewed publication and presentation at international scientific conferences.
- Ongoing student projects/papers will be discussed in class to directly help students in practical work that they are doing at the time of the course.

4. CONTENT

1. Identification of a research topic  
2. Research design  
3. Research execution and experimental approach  
4. Data acquisition and analysis techniques  
5. Interpretation of data  
6. Preparation of a scientific presentations  
7. Preparation of scientific manuscripts  
8. Considerations of ethics in research  
9. Considerations of integrity in research
5. SCHEDULE

- The Course will occur online, live: Lectures on Mondays and Wednesdays from 10:00-12:00 including discussion periods.

6. REFERENCES

Kuhn TS. The structure of scientific revolutions. University of Chicago press; 2012

Popper K. The logic of scientific discovery. Routledge; 2005