

COURSE OUTLINE

GENERAL

SCHOOL	School of Physical Education, Sport Science & Dietetics	
DEPARTMENT	Department of Physical Education & Sport Science	
STUDY LEVEL	Postgraduate Master Program	
COURSE CODE	M04	STUDY SEMESTER 1 st
COURSE TITLE	Research Methods & Statistics	
SELF CONTAINED TEACHING ACTIVITIES	TOTAL TEACHING HOURS	COURSE CREDITS
	36	7
COURSE TYPE	General background	
PREREQUISITE MODULES	None	
TEACHING AND EXAM LANGUAGE	English	
COURSE IS AVAILABLE TO ERASMUS STUDENTS	Yes	
COURSE WEB PAGE (URL)	https://eclass.uth.gr/courses/PE_P_200/	

LEARNING OUTCOMES

Learning Outcomes
<p>At the end of this module students should:</p> <ul style="list-style-type: none"> • Understand the fundamental principles of research methods and design. • Be able to generate research questions and design studies to answer these questions • Understand the basic concepts of statistics • Understand the concepts of Validity and Reliability • Plan a small research project and investigate the validity and reliability of the research methods using statistics • Understand the principles of qualitative research • Understand the different approaches (quantitative – qualitative) that sport psychology research uses and have the skills to approach research questions with the most suitable research paradigm • Be able to write a scientific research proposal
General Competencies
<p>At the end of this module students will develop competences involving:</p> <ul style="list-style-type: none"> • Search for, analysis and synthesis of data and information, using the necessary technology • Decision making • Working Independently • Working in an international environment • Production of new research ideas • Project Planning and Management • Respect for diversity and multiculturalism • Promotion of free, creative and inductive thought

COURSE CONTENT

<p>Course Content</p> <ul style="list-style-type: none"> • Introduction to research methods I • Introduction to research methods II • Experimental Research
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- Normal Curve and assessment of distribution and standardized scores.
- Introduction to Statistics
- T-tests
- Correlations
- One-way ANOVA
- Introduction to qualitative research
- Designing a qualitative study
- Five qualitative approaches
- Trustworthiness
- Mixed methods design

TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHOD	In person	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	E-class, Computer Center	
TEACHING ORGANIZATION	Activity	Semester Workload
	Lectures	36
	Study	100
	Workshops	12
	Essay writing	12
	Practice on Statistics	40
	Module Total	200
STUDENT ASSESSMENT	Research Methods Test (20%) Documentation of a brief Research Proposal Statistics Exam (50%). Data Analysis and Research Abstract Qualitative Research Essay (30%)	

READING LIST

Recommended bibliography:

- Thomas, J. R. & Nelson, J. K. (2003). Research methods in physical activity. Champaign, Ill: Human Kinetics.
- Dyer, C. (2006). Research in Psychology. MA: Blackwell.
- Duda, J. L. (1998). Advances in sport and exercise psychology measurement. Morgantown, W.Va.: Fitness Information Technology.
- Ntoumanis, N. (2001). A step-by-step guide to SPSS for sport and exercise studies. London: Routledge
- Smith, B. & Sparkes, A.C. (2009). Narrative inquiry in sport and exercise psychology: What can it mean, and why might we do it? Psychology of Sport and Exercise, 10, 1-11.
- Creswell, J.W. (2009). Qualitative procedures. Research design (3rd ed.). London: Sage.
- Kvale, S. & Brinkmann, S. (2009). Thematizing and designing an interview study (pp. 97-122). Interviews: Learning the craft of qualitative research interviewing. London: Sage

Relevant scientific journals:

- Psychology of Sport & Exercise

- Journal of Sport and Exercise Psychology
- Sport, Exercise and Performance Psychology
- Journal of Applied Sport Psychology
- The Sport Psychologist
- International Journal of Sport and Exercise Psychology
- International Review of Sport and Exercise Psychology