

COURSE OUTLINE

GENERAL

SCHOOL	School of Sports, Physical Education Sciences & Dietetics	
DEPARTMENT	Department of Physical Education & Sport Science	
STUDY LEVEL	Postgraduate Master Program	
COURSE CODE	M11	STUDY SEMESTER 3 rd
COURSE TITLE	Quantitative and Qualitative Data Analysis	
SELF CONTAINED TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	COURSE CREDITS
	36	7
COURSE TYPE	General background Skills development	
PREREQUISITE MODULES	Research Methods	
TEACHING AND EXAM LANGUAGE	English	
COURSE IS AVAILABLE TO ERASMUS STUDENTS	Yes	
COURSE WEB PAGE (URL)	https://eclass.uth.gr/courses/PE_P_143/	

LEARNING OUTCOMES

Learning Outcomes
<p>At the end of this module students should (Quantitative):</p> <ul style="list-style-type: none"> • Understand the fundamental principles of quantitative analyses. • Be able to implement quantitative statistical analyses • To expand students' quantitative and analytic thinking skills • Understand concepts of univariate and multivariate analyses • To enable students to correctly identify the appropriate statistical methods to analyze research data, and appropriately compute the statistics • Investigate the validity and reliability of the research methods using statistics • Understand the different approaches (quantitative) that sport psychology research uses and have the skills to approach research questions with the most suitable research paradigm • Be able to write results from quantitative analyses <p>In completion of the module students will be able (Qualitative):</p> <ul style="list-style-type: none"> • To conduct a mini qualitative study • To apply basic interview skills • To apply basic qualitative data analysis skills
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 • Promotion of free, creative and inductive thought

COURSE CONTENT

<p>Course Content</p> <p>Quantitative</p> <ul style="list-style-type: none"> • Introduction: Review of the SPSS • Review of the basic statistical analyses used in the area of sport and exercise psychology: bivariate correlation analysis, t-tests, one-way anova • Two-way Anova • Repeated Measures Designs • Multivariate analysis of variance • Regression, Cronbach's alpha, reliability and validity <p>Qualitative</p> <ul style="list-style-type: none"> • Formulating a qualitative research question • Designing an interview study • Analyzing qualitative data

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	24
	Workshops	12
	Study	70
	Essay writing	30
	Practice on data analysis	40
	Module Total	176
STUDENT ASSESSMENT	Quantitative Research Assignment (100%) OR Semester long assignment. Conducting a small qualitative Study (100%) Evaluation Criteria Part A. Statement of the problem (30%); Part B. Data collection (20%); Part C. Data analysis and write up (35%); and Overall presentation of final paper (15%)	

READING LIST

<p>Recommended bibliography:</p> <ul style="list-style-type: none"> • Stevens, J. P. (2002). Applied multivariate statistics for the social sciences (4th ed.). Mahwah, NJ: Lawrence Erlbaum Associates. • Ntoumanis, N. (2001). A step-by-step guide to SPSS for sport and exercise studies. London: Routledge. • Cohen, J., Cohen, P., West, S. G., & Aiken, L. S. (2003). Applied multiple regression/correlation analysis for the behavioral sciences, 3rd Ed. Mahwah, NJ: Lawrence Erlbaum Associates.
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- Field, A. (2013). *Discovering Statistics Using SPSS* (4th edition). London: Sage.
- Howell, D. C. (2006). *Statistical methods for psychology* (6th ed.). Belmont, CA: Duxbury.
- Creswell, J.W. (2013). *Qualitative inquiry and research design: Choosing among five approaches* (3rd ed.). London: Sage.
- Kvale, S. & Brinkmann, S. (2014). *Interviews: Learning the craft of qualitative research interviewing*. London: Sage
- Sparkes, A.C., & Smith, B. (2009). Judging the quality of qualitative inquiry: Criteriology and relativism in action. *Psychology of Sport and Exercise*, 10, 491–497.
- Braun, V., & Clarke, V. (2006). Using thematic analysis in psychology. *Qualitative Research in Psychology*, 3, 77-101.
- Denzin N.K. & Lincoln Y.S. (2011) *The SAGE handbook of qualitative research*. London: Sage

Relevant scientific journals:

- *Qualitative Research in Sport, Exercise and Health Journal*