



## LITHUANIAN SPORTS UNIVERSITY

### STUDY MODULE PROGRAMME (SMP)

Module Code	S	274	M	031	Accredited until				Renewal date		
	Branch of Science		Progr.	Registr. №.							

#### Entitlement

Social Research Methodology and Statistics

#### Prerequisites

Research methodology module for bachelor studies, bachelor studies

#### Course (module) Learning Outcomes

№.	Learning Outcomes	Teaching / Learning Methods	Assessment Methods
1	Students will be able to organize learning activities individually, accept scientifically informed decisions, communicate with the audience and share knowledge	Interactive lecture, Scientific paper analysis	Individual work, Problem-solving task, Reflection on action, Scientific paper (text) analysis
2	To know and understand cognition of social sciences phenomenon.	Problem-based learning	Reflection on action
3	On the basis of fundamental and applied scientific knowledge construct research design.	Case analysis (Case study), Discussion	Case analysis (study), Course project, Group work, Individual work, Scientific paper (text) analysis
4	Understand and critically analyse problems of research ethics.	Case analysis (Case study), Scientific paper analysis	Background reading, Scientific paper (text) analysis

#### Main aim

On the basis of fundamental and applied scientific knowledge to provide students with skills and analyze, critically assess the social reality of the phenomena, developing the skills needed for research activities, to develop practical skills to plan studies, collect data, analyze them, and to provide scientific conclusions.

#### Summary

The module covers topics related to the modern concept of science and the knowledge of the complexity of social reality. Scientific problem and hypotheses. Research validity and reliability issues. Sample and sampling procedures. Data collection methods in social sciences. Scientific article preparation. Research ethics issues.

#### Level of module

Level of programme		Subject group (under the regulation of the area)	Subject level
Cycle	Type		
Second	Master	Specialaus lavinimo	Deepening

#### Group under financial classification

#### Syllabus

№.	Sections and themes	Responsible lecturer
1.	Features of modern science. Cognition of social phenomenon. Relation between social and biomedical sciences	
2.		
3.	Searching for research problem and research problem fomulation.	
4.	Methodology of applying research methods. Validity and reliability.	
5.	Research sample and sampling.	
6.	Qualitative and quantitative research methods and data analyses	

№.	Sections and themes	Responsible lecturer
7.	Introduction to SPSS. Research matrix. Scales of data, coding. Data arrangement and transforming	
8.	Data arrangement and transforming	
9.	SPSS possibilities for data presentation	
10.	Statistical hypothesis testing. Parametric and non-parametric criteria	
11.	Crosstabulation. Analysis of survey research.	
12.	Questions reliability. Confirmatory factor analysis	
13.	Correlation coefficient.	
14.	Regression analysis	
15.	Analysis of variance	
16.	Experimental data analysis	
17.	Scientific publication	

Evaluation procedure of knowledge and abilities:

#### References

№.	Title
1.	Bartram, D., Berberoglu, G., Grégoire, J., Hambleton, R. K., Muñoz, J., & van de Vijver, F. (2018). ITC guidelines for translating and adapting tests (second edition). <i>International Journal of Testing</i> , 18(2), 101–134.
2.	Bhattacharjee, A. (2012). <i>Social science research: Principles, methods, and practices</i> . Prieiga internetu: <a href="http://scholarcommons.usf.edu/oa_textbooks./3">http://scholarcommons.usf.edu/oa_textbooks./3</a>
3.	Bird, S. (2019). <i>Research methods in physical activity and health</i> . London: Routledge (elektroninė knygos versija LSU bibliotekoje)
4.	Cohen, L., Manion, L., Morrison, K. (2013). <i>Research methods in education (7 ed.)</i> . London: Routledge.
5.	Cypress, B. S. (2017). Rigor or reliability and validity in qualitative research: Perspectives, strategies, reconceptualization and recommendations. <i>Dimensions of Critical Care Nursing</i> , 36(4), 253-263.
6.	Garson, G.D. (2012). <i>Univariate GLM, ANOVA, and ANCOV</i> . A <a href="http://faculty.chass.ncsu.edu/garson/PA765/anova.htm">http://faculty.chass.ncsu.edu/garson/PA765/anova.htm</a>
7.	Garson, G.D. (2012). <i>GLM Repeated Measures</i> . Prieiga internetu: <a href="http://faculty.chass.ncsu.edu/garson/PA765/glmrepeated.htm">http://faculty.chass.ncsu.edu/garson/PA765/glmrepeated.htm</a>
8.	Kardelis, K. (2016). <i>Mokslinių tyrimų metodologija ir metodai: edukologija ir kiti socialiniai mokslai: vadovėlis</i> . Vilnius: Mokslo ir enciklopedijų leidybos centras.
9.	Pakalniškienė, V. (2012). <i>Tyrimo ir įvertinimo priemonių patikimumo ir validumo nustatymas</i> . Vilnius: Vilniaus universiteto leidykla. Prieiga internetu: <a href="https://www.vu.lt/site_files/LD/Tyrimo_ir_%C4%AFvertinimo_priemoni%C5%B3_patikimumo_ir_validumo_nustatymas.pdf">https://www.vu.lt/site_files/LD/Tyrimo_ir_%C4%AFvertinimo_priemoni%C5%B3_patikimumo_ir_validumo_nustatymas.pdf</a>
10.	Patten, M. L., & Newhart, M. (2018). <i>Understanding research methods. An overview of the essentials</i> . London: Routledge.
11.	Pukėnas, K. (2005). <i>Sportinių tyrimų duomenų analizė SPSS programa</i> . Prieiga internetu: <a href="http://emokymas.lsu.lt/course/view.php?id=655">http://emokymas.lsu.lt/course/view.php?id=655</a>
12.	Pukėnas, K. (2011). <i>Kokybinių duomenų analizė SPSS programa</i> . Kaunas: LKKA.
13.	Smith, B., & Caddick, N. (2012). Qualitative methods in sport: a concise overview for guiding social scientific sport research. <i>Asia Pacific Journal of Sport and Social Science</i> , 1(1), 60-73.
14.	Smith, B., & McGannon, K. R. (2018). Developing rigor in qualitative research: Problems and opportunities within sport and exercise psychology. <i>International review of sport and exercise psychology</i> , 11(1), 101-121.
15.	Siddaway, A. P., Wood, A. M., & Hedges, L. V. (2019). How to do a systematic review: a best practice guide for conducting and reporting narrative reviews, meta-analyses, and meta-syntheses. <i>Annual review of psychology</i> , 70, 747-770.
16.	Sparkes, A.C., Smith, B. (2014). <i>Qualitative research methods in sport, exercise and health</i> . London: Routledge

№.	Title
17.	Sparkes, A.C. (2015). Developing mixed methods in sport and exercise psychology: critical reflections on five points of controversy. <i>Psychology of Sport and Exercise</i> , 16, 49-59.
18.	Thomas, J.R., Nelson, J.K., & Silverman, S.J. (2015). <i>Research methods in physical activity</i> (7th edition). Human Kinetics, Champaign
19.	Veal, A.J., & Darcy, S. (2014). <i>Research methods in sport studies and sport management: a practical guide</i> . Oxon: routledge

#### Additional literature

№.	Title
1.	Almanasreh, E., Moles, R., & Chen, T. F. (2019). Evaluation of methods used for estimating content validity. <i>Research in Social and Administrative Pharmacy</i> , 15(2), 214-221.
2.	Cleland, J., Dixon, K., & Kilvington, D. (2019). <i>Online research methods in sport studies</i> . Routledge.
3.	Healey, J. F. (2015). <i>The essentials of statistics: A tool for social research</i> . Cengage Learning.
4.	Lunnay, B., Berlogdan, J., McNaughton, D. (2015). Ethical use of social media to facilitate qualitative research. <i>Qualitative Health Research</i> , 25(1), 99-109.
5.	Meyer, K. E., Van Witteloostuijn, A., & Beugelsdijk, S. (2017). What's in ap? Reassessing best practices for conducting and reporting hypothesis-testing research. <i>Journal of International Business Studies</i> , 48, 535-551.
6.	Palinkas, L.A., Horwitz, S.M., Green, C.A., Wisdom, J.P., Duan, N., Hoggwood, V. (2015). Purposeful sampling for qualitative data collection and analysis in mixed method implementation research. <i>Adm Policy Ment Health</i> , 42(5), 537-544.
7.	Rockinson-Szapkiw, A. (2013). <i>Statistics guide</i> . Prieiga internetu: <a href="http://amandaszapkiw.com/elearning/statistics-guide/downloads/Statistics-Guide.pdf">http://amandaszapkiw.com/elearning/statistics-guide/downloads/Statistics-Guide.pdf</a>
8.	Sim, J., Saunders, B., Waterfield, J., & Kingstone, T. (2018). Can sample size in qualitative research be determined a priori?. <i>International Journal of Social Research Methodology</i> , 21(5), 619-634.
9.	Smith, C.J. (2012). Type I and Type II errors: What are they and why do they matter? <i>Phlelology</i> , 27, 199-200.
10.	Statistical Associates Publishers, <a href="http://www.statisticalassociates.com/">http://www.statisticalassociates.com/</a>
11.	Yilmaz, K. (2013). Comparison of qualitative and quantitative research traditions: epistemological, theoretical, and methodological differences. <i>European Journal of Education</i> , 48(2), 311-325.

#### Coordinating lecturer

Position	Degree, surname, name	Schedule №.
Professor		33

#### Subdivision

Entitlement	Code
a	1006

### Study module teaching form №. 1

Semester	Mode of studies	Structure				Total hours	Credits	
		Theory	Seminars	Lab Works	Ind. work			
A	S	D	12	18	0	230	260	10

#### Languages of instruction:

Lithuanian	L	English	E	Russian	R	French	F	German	G	Other	Oh
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#### Plan of in-class hours

№. of Themes	Academic hours			№. of Themes	Academic hours		
	Theory	Seminars	Lab Works		Theory	Seminars	Lab Works
1.	1	0	0	10.	1	1	0

