



LITHUANIAN SPORTS UNIVERSITY

STUDY MODULE PROGRAMME (SMP)

Module Code	S	274	M	031	Accredited until	2020	06	01	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.	Searching for research problem and research problem formulation.	
3.	Methodology of applying research methods. Validity and reliability.	
4.	Research sample and sampling.	
5.	Qualitative and quantitative research methods and data analyses	
6.	Introduction to SPSS. Research matrix. Scales of data, coding. Data arrangement and transforming	
7.	Data arrangement and transforming	

No.	Sections and themes	Responsible lecturer
8.	SPSS possibilities for data presentation	
9.	Statistical hypothesis testing. Parametric and non-parametric criterions	
10.	Crosstabulation. Analysis of survey research.	
11.	Questions reliability. Criterion of compatibility	
12.	Correlation coefficient.	
13.	Factor analysis	
14.	Regression. binary logistic regression, rank regression.	
15.	Analysis of variance	
16.	Cluster analysis	
17.	Decision trees. Predictions with SPSS.	
18.	Scientific publication	

Evaluation procedure of knowledge and abilities:

References

No.	Title
1.	Bitinas, B., Rupšienė, L., ir Žydžiūnaitė, V.(2008). Kokybinių tyrimų metodologija: vadovėlis vadybos ir administravimo s
2.	Bhattacharjee, A. (2012). Social science research: Principles, methods, and practices. Prieiga internetu: http://scholarcom
3.	Bitinas, B., Rupšienė, L., Žydžiūnaitė, V.(2008). Kokybinių tyrimų metodologija: vadovėlis vadybos ir administravimo s
4.	Cohen, L., Manion, L., & Morrison, K. (2009). Research methods in education (6 ed.). London: Routledge.
5.	Carlson, M., & Morrison, R. (2009). Study design, precision, and validity in observational studies. Journal of Palliative M
6.	Creswell, J.W. (2016). 30 Essential skills for the qualitative researcher. Prieiga per internetą: study.sagepub.com/30skills
7.	Etchegaray, J.M., Wayne, J.M.E., & Fischer, G. (2010). Understanding evidence-based research methods: reliability and Health Environments Research & Design Journal, 4(1), 131-135. Prieiga internetu: https://www.researchgate.net/publication/49687414_Understanding_EvidenceBased_Research_Methods_Reliability_and
8.	Fischer, A., Tobi, H., & Ronteltap, A. (2011). When Natural met Social: A Review of Collaboration between the Natural Reviews, 36 (4), 341-358. Prieiga internetu: https://www4.uwm.edu/c21/pdfs/transdisciplinary/presentation2013/fischer-
9.	Garson, G.D. (2012). Univariate GLM, ANOVA, and ANCOV. A http://faculty.chass.ncsu.edu/garson/PA765/anova.htm
10.	Garson, G.D. (2012). GLM Repeated Measures. Prieiga internetu: http://faculty.chass.ncsu.edu/garson/PA765/glmrepeat
11.	Holt, A. (2010). Using the telephone for narrative interviewing: a research note. Qualitative Research, 10(1), 113-121. Prieiga internetu: https://www.researchgate.net/publication/240709646_Using_the_telephone_for_narrative_interviewing_A_research_note
12.	Israel, M., & Hay, I. (2009). Research ethics for social scientists. London: Sage Publishing
13.	Paunksmienė, Ž., ir Banytė, J. (2013). Kokybiniai vartotojų elgsenos tyrimai internetu: Metodologiniai iššūkiai. Socialiniai tyrimai, 1(1), 1-10. Prieiga internetu: https://www.mruni.eu/upload/iblock/688/ST-13-3-2-02.pdf
14.	Pukėnas, K. (2005). Sportinių tyrimų duomenų analizė SPSS programa. Prieiga internetu: http://emokymas.lsu.lt/course/
15.	Pukėnas, K. (2011). Kokybinių duomenų analizė SPSS programa. Kaunas: LKKA.
16.	Smith, B., & Caddick, N. (2012). Qualitative methods in sport: a concise overview for guiding social scientific sport research. International Journal of Sport Science, 1(1), 60-73.
17.	Sparkes, A.C., Smith, B. (2014). Qualitative research methods in sport, exercise and health. London: Routledge
18.	Sparkes, A.C. (2015). Developing mixed methods in sport and exercise psychology: critical reflections on five points of view. International Journal of Sport Science, 16, 49-59.
19.	Tourangeau, R., Conrad, F.G., Couper, M.P., & Ye, C. (2014). The effects of providing examples in survey questions. Public Opinion Quarterly, 78, 1-15.
20.	Thomas, J.R., Nelson, J.K., & Silverman, S.J. (2015). Research methods in physical activity (7th edition). Human Kinetics
21.	Veal, A.J., & Darcy, S. (2014). Research methods in sport studies and sport management: a practical guide. Oxon: routledge

Additional literature

No.	Title
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No.	Title
1.	Bowker, A., Boekhoven, B., Nolan, A. et al., (2009). Naturalistic observations of spectator behavior at youth hockey games. <i>The Sport Psychologist</i> , 23, 301-316. Prieiga internetu: SPORTDiscus
2.	Bourne, P.E., Barbour, V. (2011). Ten simple rules for building and maintaining a scientific reputation. <i>PLOS computational biology</i> , 7 (6), 1-2. http://www.ploscompbiol.org/article/info%3Adoi%2F10.137
3.	Francis, J.J. et al., (2010)., What is an adequate sampling? Operationalising data saturation for theory-based interview studies. <i>Psychology and Health</i> , 25(10), 1229-1245.
4.	Flyvbjerg, B. (2006). Five Misunderstandings About Case-Study Research. <i>Qualitative Inquiry</i> , 12(2), 219-245.
5.	Garson, G.D. (2012). Univariate GLM, ANOVA, and ANCOV. http://faculty.chass.ncsu.edu/garson/PA765/anova.htm
6.	Garson, G.D. (2012). GLM Repeated Measures. http://faculty.chass.ncsu.edu/garson/PA765/glmrepeated.htm
7.	Harvey, W.S. (2011). Strategies for conducting elite interviews. <i>Qualitative Research</i> , 11(4), 431-441. IF=1,483.
8.	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.
9.	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.
10.	Pakalniškytė, V. (2012). Tyrimo įvertinimo priemonių patikimumo ir validumo nustatymas. Vilnius: Vilniaus universiteto leidykla. Prieiga internetu: http://www.vu.lt/site_files/LD/Tyrimo_ir_%C4%AFvertinimo_priemoni%C5%B3_patikimumo_ir_validumo_nustatymas
11.	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), 537-547.
12.	Smith, C.J. (2012). Type I and Type II errors: What are they and why do they matter? <i>Phleology</i> , 27, 199-200.
13.	Skurvydas, A. (2010). Apie mokslą, tiesą ir pažangą. Kaunas: Vitae Litera.
14.	Garson, G.D. (2012). GLM Repeated Measures. http://faculty.chass.ncsu.edu/garson/PA765/glmrepeated.htm
15.	Statistical Associates Publishers, http://www.statisticalassociates.com/
16.	Skurvydas, A. (2010). Apie mokslą, tiesą ir pažangą. Kaunas: Vitae Litera.
17.	Stilgoe, J. Lock, S.J., Wilsden, J. (2014). Why should we promote public engagement with science? <i>Public Understanding Science</i> , 23(1), 4-15.
18.	Kardelis, K. (2016). Mokslinių tyrimų metodologija ir metodai. Vilnius: MELC.
19.	Warthinton, R.L., Whitaker, T.A. (2006). Scale development research: A content analysis and recommendations to best practices. <i>The Counseling Psychology</i> , 34, 806-838.

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	9	17	0	234	260	10

Languages of instruction:

Lithuanian	L	English	E	Russian	R	French	F	German	G	Other	Oth
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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.	0	1	0
2.	1	1	0	11.	0	1	0
3.	2	2	0	12.	0	1	0
4.	1	2	0	13.	1	1	0

