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	33 prof. dr. Saulius Šukys
2.	Searching for research problem and research problem fomulation.	33 prof. dr. Saulius Šukys
3.	Methodology of applying research methods. Validity and reliability.	33 prof. dr. Saulius Šukys
4.	Research sample and sampling.	33 prof. dr. Saulius Šukys
5.	Qualitative and quantitative research methods and data analyses	33 prof. dr. Saulius Šukys
6.	Introduction to SPSS. Research matrix. Scales of data, coding. Data arrangement and transforming	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
7.	Data arrangement and transforming	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)

№.	Sections and themes	Responsible lecturer
8.	SPSS possibilities for data presentation	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
9.	Statistical hypotheis testing. Parametric and non-parametric criterions	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
10.	Crosstabulation. Analysis of survey research.	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
11.	Questions reliability. Criterion of compatibility	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
12.	Correlation coefficient.	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
13.	Factor analysis	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
14.	Regression. binary logistic regression, rank regression.	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
15.	Analysis of variance	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
16.	Cluster analysis	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
17.	Decision trees. Predictions with SPSS.	345 prof. habil.dr. Kazimieras Pukėnas (negeras tab)
18.	Scientific publication	33 prof. dr. Saulius Šukys

Evaluation procedure of knowledge and abilities:

References

№.	Title
1.	Bitinas, B., Rupšienė, L., ir Žydžiūnaitė, V.(2008). Kokybinių tyrimų metodologija: vadovėlis vadybos ir administravimo
2.	Bhattacherjee, 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. Ahttp://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. Pr https://www.researchgate.net/publication/240709646_Using_the_telephone_for_narrative_interviewing_A_rese arch_no
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. Socialine 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 rese Science, 1(1), 60-73.

№.	Title
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 16, 49-59.
19.	Tourangeau, R., Conrad, F.G., Couper, M.P., & Ye, C. (2014). The effects of providing examples in survey questions. Pu
20.	Thomas, J.R., Nelson, J.K., & Silverman, S.J. (2015). Research methods in physical activity (7th edition). Human Kineti
21.	Veal, A.J., & Darcy, S. (2014). Research methods in sport studies and sport management: a practical guide. Oxon: routle

Additional literature

№.	Title
1.	Bowker, A., Boekhoven, B., Nolan, A. et al., (2009). Naturalistic observations of spectator behavior at youth hockey gam The Sport Psychologist, 23, 301-316. Prieiga internetu: SPORTDiscus
2.	Bourne, P.E., Barbour, V. (2011). Ten simple rules for building and maintaining a scientific reputation. PLOS computati biology, 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. Psychology and Health, 25(10), 1229-1245.
4.	Flyvbjerg, B. (2006). Five Misunderstandings About Case-Study Research. Qualitative Inquiry, 12(2), 219-245.
5.	Garson, G.D. (2012). Univariate GLM, ANOVA, and ANCOV. Ahttp://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. Qualitative Research, 11(4), 431-441. IF=1,483.
8.	Yilmaz, K. (2013). Comparison of qualitative and quantitative research traditions: epistemological, theoretical, and methodological differences. European Journal of Education, 48(2), 311-325.
9.	Lunnay, B., Berlogdan, J., McNaughton, D. (2015). Ethical use of social media to falicitate qualitative research. Qualitat Health Research, 25(1), 99-109.
10.	Pakalniškytė, V. (2012). Tyrimo įvertinimo priemonių patikimumo ir validumo nustatymas. Vilnius: Vilniaus universitet leidykla. Prieiga internetu: http://www.vu.lt/site_files/LD/Tyrimo_ir_%C4%AFvertinimo_priemoni%C5%B3_patikimumo_ir_validumo_nustatyma
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. Adm Policy Ment Health, 42(5), 537-
12.	Smith, C.J. (2012). Type I and Type II errors: What are they and why do they matter? Phlelology, 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? Public Understandir Science, 23(1), 4-15.
18.	Kardelis, K. (2016). Mokslinių tyrimų metodologija ir metodai. Vilnius: MELC.
19.	Warthington, R.L., Whitaker, T.A. (2006). Scale development research: A content analysis and recommendations to best practices. The Counseling Psychology, 34, 806-838.

Coordinating lecturer

Position	Degree, surname, name	Schedule №.
Professor	Prof. Dr. Saulius Šukys	33

Subdivision

Entitlement	Code
a	1006

Study module teaching form №. 1

Semester	Mode of studies	Structure	Total	Credits

			Theory	Seminars	Lab Works	Ind. work	hours	
A	S	D	9	17	0	234	260	10

Languages of instruction:

Lithuanian	L	English	E	Russian	R	French	F	German	G	Other	Oth.

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
5.	1	1	0	14.	0	1	0
6.	0	1	0	15.	0	1	0
7.	0	1	0	16.	0	1	0
8.	0	1	0	17.	0	1	0
9.	1	0	0	18.	1	0	0
				Total:	9	17	0

Schedule of individual work tasks and their influence on final grade

	№. of syllabus	Total hours	Influence on grade, %	Week of presentment of task (*) and reporting (o)																	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17-20
Group Homework	2-5	22	10				*					0								
Individual Homework	2-5	22	10				*						0							
Exam	1-18	80	20				*													0
Course project	2-6	35	20							*						0				
Control work	14	25	14							*							0			
Control work	9,10	25	12								*						0			
Control work	11,13	25	14								*						0			
Total:	-	234	100																	