

LITHUANIAN SPORTS UNIVERSITY

STUDY MODULE PROGRAMME (SMP)

Module Code	S	274	В	054	Accredited		Rer	newal d	late
Module Code	Brancl	h of Science	Progr.	Registr. №.	until				

Entitlement

Research Methodology

Prerequisites

Introduction to sport science

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	Discussion, One- to-one tutorials, Practical exercises (tasks)	Background reading, Individual work, Self- assessment
2	To know and understand the main conception of scientific research.	Discussion, Formal lecture, Literature analysis	Background reading, Individual work, Scientific paper (text) analysis
3	To know and understand the structure of the research process and will be able to formulate the purpose, tasks and hypothesis (s) of the research, to select the appropriate research methods, will be able to analyse scientific literature and prepare literature review.	Case analysis (Case study), Formal lecture, Literature analysis	Individual project, Scientific paper (text) analysis
4	To know databases and will be able to independently search for scientific information and analyze it. Will be able to analyze research data and draw conclusions. Understand the ethical principles of research.	Practical exercises (tasks), Scientific paper analysis	Individual work
5	Students will understand data measurement scales, numerical data characteristics and data analysis methods. Understand and will be able to perform descriptive data analysis. Understand correlation. Understand parametric and non-parametric data analysis methods and will be able to perform inter-sample checks and make statistical conclusions.	Exercise classes, Literature analysis, Practical exercises (tasks)	Control work

Main aim

Based on knowledge of science educate capabilities of critical thinking, working independently, understand basical terms of scientific research, analyse scientific information, to plan scientific research.

Summary

Essence of scientific work. The distinguishing features of science. Types and design of research. Technique of scientific research. Organizing procedure of research. Peculiarities of scientific work organization. Conceptions of scientific methods (theoretical and empirical). Representation forms of empirical data. Theoretical analysis of the data and conclusions. Key issues in research ethics.

Level of module

Level	of programme	Cubicat aroun (under the regulation of the area)
Cycle	Type	Subject group (under the regulation of the area)
First	Bachelor	Specialaus lavinimo

Group under financial classification

Syllabus

№.	Sections and themes	Responsible lecturer
1.	Essence of thesis. Features of science. Principles of research ethics	
2.	Process of scientific research. Search for scientific literature, databases. Analysis of scientific literature	
3.	Research problem, object, aim and objectives. Raising hypothesis	
4.	The conception of research method. Quantitative research methods: questionnaire survey, quantitative observation, experiment. Systematical analysis	
5.	What is qualitative research? Qualitative research strategy	
6.	Qualitative data collection methods. Naturalistic observation. Interviews.	
7.	Ensuring the trustworthiness. Analyses of qualitative data	
8.	Representing qualitative findings.	
9.	Introduction. Statistical object. Data collection. Population and sampling methods. Data and measurement scales, data analysis stages. Statistical hypothesis testing. I and II type error.r.	
10.	SPSS program, Data base creation. The main type of variables. Descriptive statistics. Data distribution evaluation.	
11.	Correlation and regression analysis	
12.	Testing hypothesis of the equality of means. Dispersion analysis. Statistical analysis of non-parametric data.	
13.	Formulation and justification of statistical conclusions	
14.	Discussion. Scientific conclusions	

Evaluation procedure of knowledge and abilities:

References

ICIC	rences				
№.	Title	Editic Lithuania University Pressmark	n Sports	Lithuanian	methodic
1.	Bhattacherjee, A. (2012). Social science research: Principles, methods, and practices. Prieiga internetu: http://scholarcommons.usf.edu/oa_textbooks./3			No	
2.	Bird, S. (2019). Research methods in physical activity and health. London: Routledge (elektroninė knygos versija LSU bibliotekoje)			No	
3.	Cohen, L., Manion, L., Morrison, K. (2013). Research methods in education (7 ed.). London: Routledge.	37,01 Co-49	1	No	1
4.	Kardelis, K. (2016). Mokslinių tyrimų metodologija ir metodai :edukologija ir kiti socialiniai mokslai : vadovėlis. Vilnius: Mokslo ir enciklopedijų leidybos centras.	00Ka413	5	No	1
5.	Kumar, R. (2019). Research methodology: A step-by-step guide for beginners. London: Sage.			No	
6.	Patten, M. L., & Newhart, M. (2018). Understanding research methods. An overview of the essentials. London: Routledge.	OO PA377	1	No	
7.	Pukėnas, K. (2005). Sportinių tyrimų duomenų analizė SPSS programa. Prieiga internetu: http://emokymas.lsu.lt/course/view.php?id=655			No	
8.	Pukėnas, K. (2011). Kokybinių duomenų analizė SPSS programa. Kaunas: LKKA Prieiga internetu:https://www.spssanalize.lt/wpcontent/uploads/2014/03/kokybiniu_duomenu_analize_SPSS_programa.pdf			No	
9.	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. Annual review of psychology, 70, 747-770.			No	

№.		Title				F	Edition Lithuania University Pressmark	n Sports	bookstore	Number of ex. in the methodical cabinet of the depar		
10.	•	ith, B. (2014). Qualitati h. From practice to prod			•		796,01 Sp-11	1	No	1		
11.	Smith, B., & McG research: Problem International revie	annon, K. R. (2018). D s and opportunities with w of sport and exercise	eveloping nin sport a psycholo	rigor in quand exercise gy, 11(1), 1	alitative psycholo 01-121.	gy.			No			
12.		son, J.K., Silverman, S. 7th edition). Human Ki			ethods in		796,01 Гh31	2	No			
13.	Žydžiūnaitė, V. (2 socialinių mokslų	017). Kokybiniai tyrim studijų programų stude	ai: princip	oai ir metoda	ai :vadovė	Slic	00 Ži21	1	No	1		
	tional literature Title											
<u>№</u> .		, K., & Kilvington, D. (2010) Or	nlina rasaar	h method	le in en	ort studia	e Poutla	dge			
2.	Isaacs, A. N. (201	4). An overview of quantal of Medicine and Pul	litative res	search meth								
3.		(2009). Research ethics			London:	Sage P	ublishing					
4.	Kelly, P., Fitzsimons, C., & Baker, G. (2016). Should we reframe how we think about physical activity											
5.	Maslauskaitė, A. (Lietuvos karo aka	(2008). Mokslo tiriamoj demija.	o darbo n	netodologijo	s pagrind	lai. Vilı	nius: Gen	erolo Žer	naičio			
6.		dy, L. (2015). Ethnogra	phies in S	port and Ex	ercise Re	search.	London:	Routledg	ge			
7.	Assessing physica	s, R., Gerber, M., Jekau I activity through quest ort and Exercise, 10171	ionnaires-						etions.			
8.		009). Research method		s performar	ce analys	sis. Rou	ıtledge.					
9.	iššūkiai. Socialinė	Banytė, J. (2013). Koky s technologijos, 3(2), 2	61-277.						niai			
10.		08). Senasis ir naujasis					ormacijos	centras				
11.	Skurvydas, A. (20 dinating lecturer	10). Apie mokslą, tiesą	ır pażang	ą. Kaunas:	v itae Lite	era						
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Subd	livision	I				1						
		Ent	itlement						Code			
									40			
		Study mod	dule teach	ning form N	<u> </u>							
	Semester	Mode of studies	Theory	Structu Seminars	re Lab Works	Ind. work	Tota hour		credits			
A	S	D	15	45	0	200	260		10			
	guages of instruction											
Lith	uanian L E	nglish E Russia	n R	French	F	Germar	n G	Othe	r Oth.			

Plan of in-class hours

№. of Themes		Academic h	ours	№. of Themes	Academic hours								
№. of Themes	Theory	Seminars	Lab Works	№. of Themes	Theory	Seminars	Lab Works						
1.	1	0	0	8.	1	2	0						
2.	1	3	0	9.	1	3	0						
3.	2	4	0	10.	1	5	0						
4.	2	4	0	11.	0	4	0						
5.	1	2	0	12.	1	10	0						
6.	1	2	0	13.	0	3	0						
7.	2	3	0	14.	1	0	0						
				Total:	15	45	0						

Schedule of individual work tasks and their influence on final grade

	№. of	Total		Week of presentment of task (*) and reporting (o)														
	syllabus	hours	grade, %	1 2	2 3	4	5 6	57	8	9	10	11	12	13	14	15	16	17-20
Literature analysis	2,3	30	15		*		0											
Individual Homework	1,2,3	30	10			*	()										
Individual Homework	3,4	20	10				*	0										
Test	9-13	30	15					*		0								
Accounting for practice sessions	6-8	40	20					*			0							
Control work	9-13	25	15						*		0							
Group (team) project	10-13	25	15							*		0						
Total:	-	200	100															

Study module teaching form №. 2

				Structu	ıre		Total	
Seme	ester	Mode of studies	Theory	Seminars	Lab Ind. Works work		hours	Credits
A	S	N	15	45	0	200	260	10

Languages of instruction:

Lithuania	n L	English	Е	Russian	R	French	F	German	G	Other	Oth.

Plan of in-class hours

№. of Themes		Academic h	ours	№. of Themes	Academic hours								
№. of Themes	Theory	Seminars	Lab Works	№. of Themes	Theory	Seminars	Lab Works						
1.	1	0	0	8.	1	2	0						
2.	1	4	0	9.	1	3	0						
3.	2	3	0	10.	1	5	0						
4.	2	4	0	11.	0	4	0						
5.	1	2	0	12.	1	10	0						
6.	1	2	0	13.	0	3	0						
7.	2	3	0	14.	1	0	0						
				Total:	15	45	0						

Schedule of individual work tasks and their influence on final grade

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	№. of Total		Total Influence on		Week of presentment of task (*) and reporting (o)													
	syllabus	hours	grade, %	1 2	3	4	56	7	8	9 10	11	12	13	14	15	16	17-20	
Literature analysis	2,3	30	15		*	0												
Individual Homework	1-3	30	10			*	()										
Individual Homework	3,4	20	10				*	0										
Test	9-13	30	15					*		0								

	№. of	Total		W	eek	0	f p	re	sei	nt	me	,	of ta o)	ısk	(*)	anc	l rep	orting
	syllabus	hours	grade, %	1 2	2 3	4	5 6	7	8	9	10	11	12	13	14	15	16	17-20
Accounting for practice sessions	6-8	40	20					*		0								
Control work	9-13	25	15						*		0							
Group (team) project	10-13	25	15							*			0					
Total:	-	200	100															

Study module teaching form №. 3

				Structu	ıre		Total	
Seme	ester	Mode of studies	Theory	Seminars	Lab Works	Ind. work	Total hours	Credits
A	S	D	15	45	0	200	260	10

Languages of instruction:

Lithuanian	L	English	Е	Russian	R	French	F	German	G	Other	Oth.
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Plan of in-class hours

№. of Themes		Academic h	ours	№. of Themes		Academic h	ours
Nº. Of Themes	Theory	Seminars	Lab Works	Nº. Of Themes	Theory	Seminars	Lab Works
1.	1	0	0	8.	1	2	0
2.	1	3	0	9.	1	3	0
3.	2	4	0	10.	1	5	0
4.	2	4	0	11.	0	4	0
5.	1	2	0	12.	1	10	0
6.	1	2	0	13.	0	3	0
7.	2	3	0	14.	1	0	0
				Total:	15	45	0

Schedule of individual work tasks and their influence on final grade

	№. of	Total	Influence on	W	ee]	k (of p	ore	ese	en	tme	,	of ta	ısk	(*)	and	l rep	orting
	syllabus	hours	grade, %	1 2	2 3	4	5 6	5 7	8	9	10	11	12	13	14	15	16	17-20
Literature analysis	2,3	30	15		*	0												
Individual Homework	1-3	30	10			*	0											
Individual Homework	3,4	20	10				* ()										
Test	9-13	30	15					*	0)								
Accounting for practice sessions	6-8	40	20						*	0								
Group (team) project	10-13	25	15											*	0			
Control work	9-13	25	15													*	0	
Total:	-	200	100															

Study module teaching form No. 4

				Structu	ıre		Total	
Seme	ester	Mode of studies	Theory	Seminars	Lab Works	Ind. work	Total hours	Credits
A	S	N	15	45	0	200	260	10

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

Plan of in-class hours

№. of Themes		Academic h	ours	№. of Themes		Academic h	ours
№. of Themes	Theory	Seminars	Lab Works	№. of Themes	Theory	Seminars	Lab Works
1.	1	0	0	8.	1	2	0
2.	1	4	0	9.	1	3	0
3.	2	3	0	10.	1	5	0
4.	2	4	0	11.	0	4	0
5.	1	2	0	12.	1	10	0
6.	1	2	0	13.	0	3	0
7.	2	3	0	14.	1	0	0
		_		Total:	15	45	0

Schedule of individual work tasks and their influence on final grade

	№. of	Total		Wee	k	of	p	re	sei	ntn	nen		of ta o)	ısk	(*)	anc	l rep	orting
	syllabus	hours	grade, %	123	3 4	15	6	7	8	9 1	10 1	1	12	13	14	15	16	17-20
Literature analysis	2,3	30	15	>	k	0												
Individual Homework	1-3	30	10		*	k	0											
Individual Homework	3,4	20	10				*	0										
Test	9-13	30	15					*)								
Accounting for practice sessions	6-8	40	20					*			0							
Control work	9-13	25	15						*		0							
Group (team) project	10-13	25	15						:	k			0					
Total:	-	200	100															