LITHUANIAN SPORTS UNIVERSITY

STUDY MODULE PROGRAMME (SMP)

М	odule Code	В	710	В	124	Accredited		Renewal	date		
IVIO	odule Code	Branch of Science Progr.		Registr. №.	until						
Entit	tlement										
	siotherapy in C	Orthopedie	cs and Trauma	atology							
	equisites										
				n Physioth	erapy, Kinesio	logy					
Cou	rse (module) L	earning C	Dutcomes				•				
№.	Learning Out	tcomes			Teaching / L Methods	earning	Asses	sment Metho	ds		
1	reasonable co	omments, l modify a	ely criticize, g accept constr activities acco	uctive	Exercise clas work, Simula (world) situa	ation of real-life	Reporting for practice work				
2	and take resp	onsibility ics of the	l work indepe for it. To be scientific met	able to		alysis, Practical sks), Scientific is	Mid-term examination, Reporting for practice work, Scientific paper (text) analysis, Test				
3	skeletal muse tendons, exai	cles, bone nine func interpret f	injuries or da s, ligaments a tional status c indings apply ethods.	nd of the	Formal lectu Literature an Scientific pa Simulation o (world) situa	per analysis, f real-life	Mid-term examination, Reporting for practice work, Test				
4	symptoms of know the cor understand th	of diseas traindicate traindicate the factors	sh the signs a es and conditi tions for PT a that might aff ealth condition	ons, to nd Fect the	Formal lectu analysis, Sci analysis	re, Literature entific paper	Mid-term examination				
5	other related	parties in	tients, custom accordance w hics, moral ar	with the	Simulation o (world) situa	tions	Reporting for practice work				
6	procedures u	sing scien	physical thera tifically based n methods and	d and	Group work, analysis, Pra (tasks), Scien analysis, Sin life (world) s	erm examinat					

Main aim

Develop the ability based on biomedical science and proven expertise to examine and treat orthopedic patient who had experienced trauma, has skeletal-muscle system pathologies, orthopedic conditions, rheumatic disease. Develop the ability to interpret findings of examination, to define the need of PT and set appropriate goals also apply inovative and effective PT methods and means.

Summary

The module provides the latest, science-based orthopedic, trauma, and rheumatologic patient testing and physical therapy principles, methods and tools. Students assimilate theoretical knowledge related to structure and function and damage of each anatomical region. Students gain practical skills of patient examination and application of PT methods and techniques. Analysis of the area relevant scientific articles is included into module activities.

Level of module

Level of programme		Subject group (up don the regulation of the error)
Cycle	Туре	Subject group (under the regulation of the area)
First	Bachelor	Bendrojo universitetinio lavinimo

Group under financial classification

Sylla	bus	
<u>№</u> .	Sections and themes	Responsible lecturer
1.	Introduction. Structure of the module. Evaluation criteria	
2.	Cervical spine anatomy and kinesiology. Cervical spine injuries.	
3.	Cervical spine examination. Special tests.	
4.	Cervical spine treatment.	
5.	Cervical spine fractures and PT	
6.	Thoracic spine anatomy and kinesiology.	
7.	Thoracic spine treatment.	
8.	Shoulder anatomy and kinesiology.	
9.	Shoulder complex injuries and orthopaedic conditions.	
10.	Shoulder complex examination. Special tests.	
11.	Shoulder complex treatment.	
12.	Elbow and forearm examination. Special tests.	
13.	Elbow and forearm treatment.	
14.	Wrist and hand anatomy and kinesiology. Injuries and orthopaedic conditions.	
15.	Treatment, physiotherapy in wrist and hand injuries.	
16.	Anatomy and kinesiology of lumbar spine.	
17.	Pathology, orthopaedic disorders and injuries of lumbar spine.	
18.	Examination, functional movements and special tests of lumbar spine.	
19.	Physiotherapy in lumbar spine disorders. McKenzie concept, therapeutic exercises.	
20.	Mobilisation of the spine. Education of the patient.	
21.	Red Cord in treatment of lumbar spine disorders.	
22.	Pelvis injuries and orthopedic problems. Examination, special tests.	
23.	Physiotherapy in pelvis injuries and orthopedic problems.	
24.	Hip injuries and orthopedic problems. Examination of the hip.	
25.	Knee anatomy and kinesiology. Knee injuries and pathology.	
26.	Knee examination, special tests.	
27.	Knee treatment and physiotherapy.	
28.	Ankle and foot anatomy and kinesiology. Orthopedic problems.	
29.	Ankle and foot examination, conservative treatment and surgery, physiotherapy.	
30.	Amputation, indications, levels, pain. Examination of the amputee.	
31.	Burns, scars, treatment, physiotherapy and soft tissue mobilisations.	
32.	Orthosis and prosthesis.	
33.	Rheumatology and physiotherapy. Musculoskeletal reactions to rheumatological conditions.	
34.	Examination of the rheumatological patient.	
35.	Physical agents in rheumatology.	
36.	Sclerodermia, polymiositis, dermatomiositis, systemic lupus erithematosus and	
	physiotherapy.	
37.	Spondyloarthropaties, ankylosing spondilitis, rheumatoid arthritis. Patient examination and physiotherapy.	
38.	Ostheoartritis, symptoms, examination and physiotherapy.	

Evaluation procedure of knowledge and abilities:

References

Refe	rences									
№.	Title	Sports	n Lithuanian University brary Number of exemplars	In Lithuanian Sports University bookstore	Number of ex. in the methodical cabinet of the depart.					
1.	Gray's Anatomy: The Anatomical Basis of Clinical Practice, Expert Consult, 40th Edition			No	1					
2.	Žmogaus anatomija No									
3.	Kinesiology of the Musculoskeletal System, 2nd EditionNo1Orthopedic Physical Assessment, 6th EditionNo1									
4.	Orthopedic Physical Assessment, 6th Edition No									
5.	Susan L. Edmond, Sąnarių mobilizacija, manipuliacija. Technikos, skirtos galūnių sąnariams ir stuburui, ISBN: 9786094540608, Puslapių skaičius: 360, Leidėjas: Vitae Litera, 2012No1									
Addi	tional literature				11					
№.	Title									
1.	John D. Childs et al., Neck pain. J Orthop Sports Ph	ys Ther 200	08;38(9):A1-A	A34.						
2.	Paul E. Mintken et al., Upper Cervical Ligament Te With Headaches J Orthop Sports Phys Ther 2008;38			s Odontoideum P	resenting					
3.	Ariel Desjardins-Charbonneau et al., The Efficacy of Systematic Review and Meta-analysis, J Orthop Spo	orts Phys Th	er 2015;45(5)	:330-350	· ·					
4.	Michael M. Reinold et al., Current Concepts in the s for Glenohumeral and Scapulothoracic Musculature									
5.	Martin J. Kelley et al., Shoulder Pain and Mobility Ther 2013;43(5):A1-A31	Deficits: Ac	lhesive Capsu	litis J Orthop Spo	orts Phys					
6.	Amrish O. Chourasia et al., Relationships Between Individuals With Lateral Epicondylosis J Orthop Sp			•••	nction in					
7.	Joshua I. Vincent Validity and Sensitivity to Change for Elbow Pathologies, J Orthop Sports Phys Ther		·	n and Disability N	Measures					
8.	Christopher J. Buscema Scaphoid Fracture in a Patie 2012;42(6):568			Sports Phys Ther						
9.	Anthony Delitto et al., Low Back Pain. J Orthop Sp	orts Phys T	her 2012;42(4):A1-A57						
10.	ssociation Between Changes in Electromyographic in Individuals With and Without Lumbopelvic Pain Joanne Hodder, Martin B. Warner, Maria J. Stokes, doi:10.2519/jospt.2013.4440, Full text: http://www.jospt.org/doi/abs/10.2519/jospt.2013.44	, Authors: J J Orthop S	ackie L. Whit ports Phys The	taker, Linda McL	.ean,					
11.	Nonarthritic Hip Joint Pain Clinical Practice Guidelines Linked to the International Classifiation of Functioning, Disability and Health From the Orthopaedic Section of the American Physical Therapy Association, Authors: Keelan Enseki, Marcie Harris-Hayes, Douglas M. White, Michael T. Cibulka, Judith Woehrle, Timothy L. Fagerson, John C. ClohisyJ Orthop Sports Phys Ther. 2014;44(6):A1–A32.									
12.	Knee Pain and Mobility Impairments: Meniscal and Logerstedt, Lynn Snyder-Mackler, Richard C. Ritte Phys Ther 2010;40(6):A1-597. doi:10.2519/jospt.20 http://www.jospt.org/doi/abs/10.2519/jospt.2010.03	r, Michael J)10.0304, F	I. Axe, Joseph ull text:							
13.	Ankle Stability and Movement Coordination Impair Martin, Todd E. Davenport, Stephen Paulseth, Dane Ther 2013;43(9):A1-A40. doi:10.2519/jospt.2013.0 http://www.jospt.org/doi/abs/10.2519/jospt.2013.03	rments: Ank e K. Wukich 305, Full te	tle Ligament S 1, Joseph J. Go xt:	•	•					

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14.	 Achilles Pain, Stiffness, and Muscle Power Deficits: Achilles Tendinitis, Authors: Christopher R. Carcia, Robroy L. Martin, Jeff Houck, Dane K. Wukich, J Orthop Sports Phys Ther 2010;40(9):A1-A26. doi:10.2519/jospt.2010.0305, http://www.jospt.org/doi/abs/10.2519/jospt.2010.0305#.VY0Ny1JSpec 										
15.	 Frank H. Netter, Atlas of Human Anatomy: Including Student Consult Interactive Ancillaries and Guides, 6th Edition (Netter Basic Science), ISBN-13: 978-1455704187, ISBN-10: 1455704180, Publisher: Saunders, (2014), 640 pages. 										
16.	A. Baranauskaitė, E. Eviltis, G. Labanauskaitė-Šliumbienė, Reumatologijos pagrindai, Leidėjas: Vitae Litera, 2010, Puslapiai: 118, ISBN: 9789955920809										
17.	 Pavelas Zachovajevas, Gražina Garbenienė, Giedra Bušmanienė ir kt., Klubo sąnario artrozė ir endoprotezavimas. Kineziologija ir kineziterapija, Leidėjas: LSMU Leidybos namai, 2014, Puslapių skaičius: 150, ISBN: 9789955153443. 										
18.	 18. Susan L. Edmond, Sąnarių mobilizacija, manipuliacija. Technikos, skirtos galūnių sąnariams ir stuburui, ISBN: 9786094540608, Puslapių skaičius: 360, Leidėjas: Vitae Litera, 2012 										
Coo	Coordinating lecturer										
	Position Degree, surname, name Schedule №.										
	Associate Professor 670										

Subdivision

Entitlement

Study module teaching form №. 1

Code 40

				Structu	ıre	Total																				
Semester		M	Mode of studies		Theory	Seminars	Lab Works		Ind. work	hours	Credits															
А	S		D		25	0	6	5	170	260	10															
Languages o	-						-																			
Lithuanian	L	Engli	sh E	Russia	n R	French	F	(German	G	Other Oth.															
Plan of in-cla	ass h	ours																								
							1	Academic h	ours																	
№. of Them	nes	Theory	Seminars	Lab	Works	№. of Theme		Theory		Seminars	Lab Works															
1.		1	0		0	20.	20.		0	0	1															
2.		1	0		0	21.			0	0	1															
3.		0	0		4	22.			1	0	2															
4.		0	0	4		23.			0	0	3															
5.		1	0		1	24.			1	0	2															
6.		0	0		2	25.			2	0	0															
7.		0	0		3	26.	26.		1	0	3															
8.		1	0		0	27.		1		0	4															
9.		1	0		0	28.		1		0	0															
10.		0	0		4	29.		0		0	4															
11.		0	0		6	30.		1		0	1															
12.		1	0		2	31.		0		0	2															
13.		0	0		3	32.		0		0	1															
14.		1	0		0	33.			1	0	0															
15.		0	0		3	34.			1	0	0															
16.		1	0		0	35.		35.		35.		35.		35.		1		1		1		1		0	0	
17.		2	0		0	36.			1	0	0															
18.		0	0		3	37.		1		0	1															
19.		1	0		3	38.			1	0	2															
					Τ	To	otal:		25	0	65															

Schedule of individual work tasks and their influence on final grade

	№. of syllabus	Total	TotalInfluence onoursgrade, %	Week of presentment of task (*) and reporting (0)													
	synabus	nours		12	3	4	56	7	8	9 10) 11	12	13	14	15	16	17-20
Accounting for practice sessions	1-18	40	20	*			0										
Exam	1-50	50	50	*													0
Accounting for practice sessions	19-34	40	20				*		()							
Test	35-46	40	10							*				0			
Total:	-	170	100														