LITHUANIAN SPORTS UNIVERSITY

STUDY MODULE PROGRAMME (SMP)

Module Code		0	В	115		В	016	Accredited			Renew		late		
IVIO	Entitlement		Brancl	h of Sciend	ce	Progr.	Registr. №.	until							
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-	rt Biomech	nanio	CS												
	equisites														
Cou	rse (modul	le) L	earning	Outcomes	3										
№.	№. Learning Outcomes Teaching / Learning Methods Will be able to name and define the basic mechanical Image: Comparison of the second												nt		
1	principle	s and mov	d laws; a	and define pply them rely on th	Assignments, classes, Forma Reading list	EX	Examination, Test								
2	concepts principles and laws of biomechanics integrating								Assignments, Exercise classes, Formal lecture, Reading list						
3	Will be able to explain muscle adaptation (damage and growth / enhancement) under physical stress biomechanicalAssign classes								gnments, Exercise ses, Formal lecture, ling list						
Mair	Main aim														
then	to provide students with the knowledge to understand the basic mechanical principles and laws and to apply them to the analysis of athletic performance: describing athlete movement (technical action), muscle function, and biomechanical mechanisms of muscle adaptation (injury and growth / enhancement).														
Sum	mary														
The	module is	desi	igned to i	introduce	the l	basic mecl	hanical principle	es and laws on the	e ba	asis o	f prof	essional			
betw mus	The module is designed to introduce the basic mechanical principles and laws on the basis of professional sports would be able to understand and describe the movement of the athlete (sports techniques); interactions between athlete movement and muscle activity (neuromechanics) and between athlete performance and muscle damage and growth. This module integrates knowledge of mechanics, neurophysiology and biology to explain athlete performance.														
Leve	el of modu	le													
	Level of	e pro	gramme			S	ubject group (up	der the regulatio	n of	ftha	araa)				
Cyc	le	Тур	e					ne area)							
First			helor		Bend	rojo unive	rsitetinio lavinir	no							
Grou	ıp under fi	inan	cial class	ification											
Sylla	abus														
№.	. Sections and themes Responsible lecturer										le				
1.	1. Kinematics and dynamics of linear motion. Posture and stability.														
2.	Kinemat: neurophy		•	nics of ar	ngula	r motion.	Muscle biomech	nanics and							
3.	Biomechanical aspects of muscle adaptation (injury and growth / strengthening)														

Evaluation procedure of knowledge and abilities:

References

			Edition in Lithuar University li		In Lithuanian Sports	Number of ex. in the						
№.		Title	Number of exemplars	University bookstore	methodical cabinet of the depart.							
1.		2008).Neuromechanics of nt. Champaign, IL: Human	796.012:612.76 En-10	2	No							
2.		(2005) Biomechanics. Human Kinetics	796.012:612.76 Mc-01	2	No							
3.	Mackinnon, L.T biophysical four	Hanrahan, S.J., Kippers, V., C. & Pandy, M.G. (2013) The adations of human movement. Human Kinetics	612.7 Bi-285									
Add	itional literature											
№.	Title											
1.		mechanikos pagrindai: vadovėli	is: LKKA, 20063	04 p.								
Coo	rdinating lecturer											
	Position	Degree, surnar	ne, name		Schedule N	<u>•</u> .						
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Study module teaching form №. 1

						Structure													Total				
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