

LITHUANIAN SPORTS UNIVERSITY

STUDY MODULE PROGRAMME (SMP)

Module Code	S 273		В	19I	Accredited		Ren	newal o	late
	Branc	h of Science	Progr.	Registr. №.	until				

Entitlement

Athlete Training Technologies I

Prerequisites

Students must have completed the module "Sport and exercise physiology"

Course (module) Learning Outcomes

	(module) Boarming Guiteomes	Teaching / Learning			
№.	Learning Outcomes	Methods	Assessment Methods		
1	At the end of the module the student will be able to explain the principles of coaching, to develop programs of training stages, applying modern technologies of athlete training.	Exercise classes, Formal lecture, Literature analysis, Problem-based learning, Seminar	Case analysis (study), Individual work, Mid-term examination, Scientific paper (text) analysis, Test		
2	At the end of the module, students will be able to describe and select appropriate teaching and learning methods to achieve their training goals.	Discussion, Exercise classes, Formal lecture, Individual project, Literature analysis, Seminar	Case analysis (study), Individual work, Mid-term examination, Seminar, Test		

Main aim

On the basis of international level fundamental and applied interdisciplinary science and technologies, to train university level Bachelor of Sports, providing knowledge and skills necessary to work with athletes in the areas of sports coaching. In the course of their studies students will gain knowledge of sports mastery, skills in organizing competitions; they will learn how to establish and assess athletes' powers and prepare coaching programmes, train people of different age and mastery.

Summary

The main aim of the module is to provide profound knowledge of athlete training theory based on the international achievements of fundamental and applied interdisciplinary science technologies, to teach creative and critical analysis of the latest athlete training technologies and mobile skills development methods, to develop practical skills of athlete training planning. Competences developed: versatile cognition and idea management; continuous professional training and personal development, development of educational environment; management of the athlete training process.

Level of module

Level	of programme	Subject group (under the regulation of the gree)
Cycle	Type	Subject group (under the regulation of the area)
First	Bachelor	Mokslo srities pagrindų

Group under financial classification

10.Dailė (mokytojai), teatras (mokytojai), muzika (mokytojai), pedagogika (auklėtojai, pedagogai), sportas (treneriai)

Syllabus

№.	Sections and themes	Responsible lecturer
1	Sports Coaching	6 prof. habil.dr.
1.	Sports Coaching	Antanas Skarbalius
1 1	The Concept of Modern Coaching Technologies in Athletes. Coach	6 prof. habil.dr.
1.1	Phenomenon	Antanas Skarbalius
1.2	Sports Performance: Notational Analysis (Skills in Using Stat4Sport	6 prof. habil.dr.
1.2	Platform)	Antanas Skarbalius

№.	Sections and themes	Responsible lecturer
1.3	Training Structure. Warning-up technologies	6 prof. habil.dr.
1.5	Training Structure. Warning-up technologies	Antanas Skarbalius
1.4	Philosophy of Training and Fitness	6 prof. habil.dr.
1.7	1 mosophy of Training and Tuness	Antanas Skarbalius
1.5	Relationship Between Functional Capacity and Fitness	6 prof. habil.dr.
		Antanas Skarbalius
1.6	Sports Talent identification. Long-term Athletes Development	6 prof. habil.dr.
		Antanas Skarbalius
1.7	Coaching Methods and Exercises Taxonomy	6 prof. habil.dr. Antanas Skarbalius
	Planning of Athletes Coaching: Periodization, Microcycle and Annual Plan	6 prof. habil.dr.
1.8	Programming	Antanas Skarbalius
	Monitoring Training and Performance in Athletes. Skills of Monitoring	6 prof. habil.dr.
1.9	Training Loads by Spreadsheet	Antanas Skarbalius
1 10		6 prof. habil.dr.
1.10	Ergogenic Aids in Athletes Coaching	Antanas Skarbalius
2.	Muscle strength and power	497 doc. dr. Nerijus
۷.	wuscle strength and power	Masiulis
2.1	Basic principles of muscle strength and power training	497 doc. dr. Nerijus
		Masiulis
2.2	Muscle adaptation to strength and power training. Causes of muscle	497 doc. dr. Nerijus
	hypertrophy	Masiulis
2.3	Strength training methodology, basics of training programs and practical recommendations	497 doc. dr. Nerijus Masiulis
	Neuromuscular adaptation to strength and power training. Physiological	
2.4	adaptation of tendons, bones and connective tissue to strength and power	497 doc. dr. Nerijus
2	training	Masiulis
2.5	Children's adaptation to resistance training. Women's adaptation to resistance	497 doc. dr. Nerijus
2.5	training	Masiulis
2.6	Neuromuscular adaptation to resistance training in elderly	497 doc. dr. Nerijus
	reasonabeatar adaptation to resistance training in olderly	Masiulis
2.7	Power training methods and practical recomendations	497 doc. dr. Nerijus
	<u> </u>	Masiulis
2.8	Testing of strength and power	497 doc. dr. Nerijus Masiulis
		497 doc. dr. Nerijus
2.9	Aspects of strength and power training in athletes of different sports	Masiulis
2.10		497 doc. dr. Nerijus
2.10	Strength and power training research: recent scientific advances	Masiulis
3.	Endurance (asoc. prof. dr. Pranas Mockus, prof. dr. Tomas Venckūnas)	104 doc. dr. Pranas
٦.	Endurance (asoc. prof. dr. 1 fanas ivioekus, prof. dr. 10mas v enekunas)	Mockus
3.1	Endurance: motor ability. definitions, classification	104 doc. dr. Pranas
	,,	Mockus
3.2	Physiology of endurance	496 doc. dr. Tomas Venckūnas
		104 doc. dr. Pranas
3.3	Training of aerobic endurance. Nutrition.	Mockus
<u> </u>		496 doc. dr. Tomas
3.4	Interval training	Venckūnas
2.5	Altitude and man too distance to the form of the contract of t	104 doc. dr. Pranas
3.5	Altitude and non-traditional training for endurance performance	Mockus
3.6	Concurrent training	496 doc. dr. Tomas
5.0	Concerton deming	Venckūnas

№.	Sections and themes	Responsible lecturer
3.7	Endurance testing	104 doc. dr. Pranas Mockus
3.8	Endurance training in different sports I	104 doc. dr. Pranas Mockus
3.9	Endurance training in different sports II	104 doc. dr. Pranas Mockus

Evaluation procedure of knowledge and abilities:

References

ICIC	rences				
3.0	TO 1	Edition in L Sports Univer		In Lithuanian Sports	Number of ex. in the
№.	Title	Pressmark	Number of exemplars	University bookstore	methodical cabinet of the depart.
1.	Kenney, W.L., Wilmore, J.H., Costil, D.L. (2020). Physiology of Sport and Exercise, 7th ed. Champaign, IL: Human Kinetics.	796.01:612 Ke-112	2	No	
2.	Mikalauskas, R. (sudarytojas), Girdauskas, G., Zachovajevas, P., Stasiulis, A., Stanislovaitis, A., Novikovas, V., Jakubauskas, A., Skurvydas, A., Kontvainis, V. (2007). Trenerio knyga. Fizinis rengimas. [Vadovėlis]. Kaunas: LKKA. 264 p.	796.015 Tr94	50	Yes	
3.	Skurvydas, A. (2008). Judesių mokslas: raumenys, valdymas, mokymas, reabilitavimas, sveikatinimas, treniravimas, metodologija. [Vadovėlis]. Kaunas: LKKA. 606 p	612.7 Sk93	99	Yes	
4.	Nelson, A. G., Kokkonen, J. J. Streching Anatomy. 2007			No	
5.	Bompa, T.O., Buzzichelli, C.A. (2015). Periodization Training for Sports. 3rd ed. Human Kinetics.			No	
6.	Kairaitis, R. (2012). Jėgos treniruotė. Kultūrizmas. Sveikatingumas. [Studijų knyga]. Kaunas: LKKA, 230 p.	796.89 Ka- 151	21	Yes	
7.	Skarbalius, A., Masiulis, N., Stanislovaitis, A., Stanislovaitienė, J., Poderys, J., Kamandulis, S., Rutkauskaitė, R. (2012). Sports Coaching (Basics). [Studijų knyga]. Kaunas: LKKA. 261 p.	796.015 Sp51	100	Yes	
8.	Balyi, I., Way, R., Higgs, C. (2013). Long-Term Athlete Development. Human Kinetics.			No	
9.	Pyke, F. (2015). Coaching Excellence. Human Kinetics.	796.015 Co- 01	1	No	
	Comment:Review Article				
10.	Issurin, V. (2010). New horizons for the methodology and physiology of training periodization. Sports Medicine, 40(3), 189–206. [PDF]			No	

Additional literature

Ŋ <u>o</u> .	Title
1	Čepulėnas, A. (2001). Slidininkų rengimo technologija: monografija / Algirdas Čepulėnas ; Lietuvos
1.	kūno kultūros akademija. Kaunas : LKKA, 654 p.
2.	Karoblis, P. (2003). Jaunojo sportininko treniruotė.
3.	Chu, D.A. (1996). Explosive Power and Strength. Complex Training for Maximum Results.

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٠.			rnal of Spor			•	4011111	cs and ski	ns m groups	or sciected			
						ing Methods	and T	Their Effec	ets on Athleti	ic			
8.													
0	Performance A Systematic Review and Practical Applications. Sports Medicine, 43:207–225. Naclerio, F. Moody, J. Chapman, M. (2013). Applied periodization: a methodological Approach.												
9.	Journal of Human Sport & Exercise. Volume 8, Issue 2, 350–366.												
Cooı	rdinating lect	turer											
	Position			Degree	, surnan	ne, name			Scheo	dule №.			
	Professor		Pr	of. Dr.	Sigitas I	Kamandulis			1	.11			
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1.8	2	1	0	3.3	1	1	0				
1.9	2	1	0	3.4	1	0	0				
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Schedule of individual work tasks and their influence on final grade

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