



LITHUANIAN SPORTS UNIVERSITY

STUDY MODULE PROGRAMME (SMP)

Module Code	P	175	M	001	Accredited until				Renewal date		
	Branch of Science		Progr.	Registr. №.							

Entitlement

Information Technology in Sport, Personal and Public Health

Prerequisites

Bachelor degree

Main aim

To provide knowledge and skills to use innovative information technologies, effectively master health and sports information technology products, participate in health and sports information technology products and services development and maintenance, apply ethical principles using information technologies.

Provided knowledge and abilities

Students will gain knowledge of information technology principles, health and sports information technology services and infrastructure. Will understand the processes of data collection/recording, analysis, storage and feedback formation. Will acquire practical skills in information technology requirements formulation, architecture design, algorithm formation. Will be able to evaluate information technology needs and application in sports, personal and public health, effectively take part in IT services development, implementation and support, apply ethical principles.

Summary

Students will gain knowledge of information technology principles, health and sports information technology services and infrastructure. Will understand the processes of data collection/recording, analysis, storage and feedback formation. Will acquire practical skills in information technology requirements formulation, architecture design, algorithm formation. Will be able to evaluate information technology needs and application in sports, personal and public health, effectively take part in IT services development, implementation and support, apply ethical principles.

Level of module

Level of programme		Subject group (under the regulation of the area)	Subject level
Cycle	Type		
Second	Master	Bendrojo universitetinio lavinimo	Applied

Group under financial classification

Syllabus

№.	Sections and themes	Responsible lecturer
1.	Introduction to information technologies in sport, personal and public health	
2.	Computer science, binary information coding system	
3.	Information retrieval systems	
4.	Individualized public health	
5.	Information technology products for personal and public health	
6.	Market situation and determination of market needs, consumption cases, technical requirements	
7.	Smart clothing and wearable sensors	
8.	Systems architecture	
9.	Principles of algorithm creation	
10.	Artificial intelligence and its use in healthy applications	
11.	Databases, health information systems	
12.	Visualization of data and feedback	

Teaching/learning methods:

Interactive lectures, discussions, practical work, seminars, interactive tasks in the e-learning system, self-studies

Evaluation procedure of knowledge and abilities:

References

№.	Title	Edition in Lithuanian Sports University library		In Lithuanian Sports University bookstore	Number of ex. in the methodical cabinet of the depart.
		Pressmark	Number of exemplars		

Additional literature

№.	Title
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Coordinating lecturer

Position	Degree, surname, name	Schedule №.
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Subdivision

Entitlement	Code
Department of Physical and Social Education	1006

Study module teaching form №. 1

Semester		Mode of studies	Structure				Total hours	Credits
			Theory	Seminars	Lab Works	Ind. work		
A	S	D	16	14	0	230	260	10

Languages of instruction:

Lithuanian	L	English	E	Russian	R	French	F	German	G	Other	Oth.
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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	7.	2	1	0
2.	2	1	0	8.	1	0	0
3.	1	1	0	9.	1	2	0
4.	2	1	0	10.	1	0	0
5.	1	2	0	11.	1	2	0
6.	1	2	0	12.	2	3	0
				Total:	16	15	0

Schedule of individual work tasks and their influence on final grade

[illegible]