



CREATION AND DEVELOPMENT PROSPECTS OF ACADEMIC AND RESEARCH INSTITUTE OF PHYSICAL CULTURE AND WELLNESS TECHNOLOGIES OF THE NDUU NAMED AFTER IVAN CHERNIAKHOVSKYI

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Abstract

Physical training is one of the main subjects of military training and immediately influences the level of combat efficiency of the Ukrainian Armed Forces (AF), military bodies and law enforcement authorities. Ministry of Defense of Ukraine performs a systematic work on the improvements of military education with the aim of drawing it near to the training system of military member countries of the North Atlantic Treaty Organization. The issue of physical training is mainly considered from the point of view of maintenance of the healthy lifestyle, development of individual physical qualities and special abilities, use of reserve physical and psychic capacities of a person. The study of the process of physical improvement and organizational issues of the physical training is given full consideration in papers of military experts.

The objective – to consider the preconditions for creation and analyze the prospects for the development of academic and research Institute of physical culture and wellness technologies of the NDUU named after Ivan Cherniakhovskiy.

Methods: analysis and generalization of scientific and methodological literature, Internet data.

Results. The analysis has shown the state and prospects of the development of staff, scientific and methodological, material and technical facilities in the Military Academy (Odessa) and the Institute.

Conclusions. It is possible to sum up that the expansion of the Institute will provide an opportunity for performing a coherent multilevel training of specialists in physical training and sport from the instructor – associate to a military expert of strategic-tactical level for the AF of Ukraine and other structures.

Key words: institute, science, physical culture, technologies, sport.

Introduction

Physical training is one of the main subjects of military training and immediately influences the level of combat efficiency of the Ukrainian Armed Forces (AF), military bodies and law enforcement authorities. Considering this, nowadays the issue of a centralised training of physical training and sport personnel for the bodies of the security and defense sector of Ukraine becomes urgent.

Ministry of Defense of Ukraine performs a systematic work on the improvements of military education with the aim of drawing it near to the training system of military member countries of the North Atlantic Treaty Organization (NATO) [4, 9, 10, 11]. The experience of these states is indicative of tendencies of centralization of specialists

training in the sphere of physical training and sport for the AF, law enforcement authorities and the unification of the process of personnel training with the organization of scientific researches.

In the present scientific literature the issue of physical training is mainly considered from the point of view of maintenance of the healthy lifestyle, development of individual physical qualities and special abilities, use of reserve physical and psychic capacities of a person [2, 5, 6, 13, 14, 20]. Some scientists study separate issues of physical training and sport, as well as the ways of enhancement of competitive activity efficiency [17–19]. In addition, the specialists examine the occupational guidance and competence of future specialists in physical education in the Ukrainian AF [7, 15].



The study of the process of physical improvement and organizational issues of the physical training is given full consideration in papers of military experts [1, 2, 8, 12, 16].

The objective - to consider the preconditions for creation and analyze the prospects for the development of academic and research Institute of physical culture and wellness technologies of the NDUU named after Ivan Cherniakhovskiy.

Methods

Methods: analysis and generalization of scientific and methodological literature, Internet data.

Results and discussion

The optimization process of the system of work in physical training and sport at the state level has begun in 2015 on the initiative of the Minister of Defence of Ukraine. Furthermore, a working party including scientists and lead specialists in the sphere of physical training and sport of the AF and law enforcement authorities of Ukraine has been created by the order of the Ministry of Youth and Sports of Ukraine.

A research and practice conference on the results of conducting command and staff training «Ultimate Reply – 2015» has taken place in the Ministry of Defense of Ukraine in 2015, during which chiefs of structures that are included into the security and defense sector of Ukraine has brought up the issue concerning the necessity of centralised training of personnel of various types in higher military educational establishments (HMEE). This idea has been supported by the President of Ukraine – the Commander-in-Chief of the Ukrainian AF Petro Poroshenko, under the chairmanship of which the conference has been held.

During conducting the All-army scientific and methodological conferences (2015–2017), which have been held in the National Defense University of Ukraine named after Ivan Chernyakhovsky, participants – lead scientists and experts on physical training and sport of the Ukrainian AF and law enforcement authorities – have unanimously supported the idea concerning the creation of the Academic and Research Institute of Physical Culture and Sport and Health Technologies at the NDUU named after Ivan Chernyakhovsky

(hereinafter – the Institute) for the centralised training of personnel. The creation of the Centre of Scientific Activities on the Matters of Development of Physical Training and Sport in the AF, Other Military Bodies and Law Enforcement Authorities of Ukraine for training scientific personnel within the Institute has also been stressed.

The expediency of creation of the Institute has been discussed at a meeting under the chairmanship of the Vice-Prime Minister of Ukraine V. Kyrylenko of 22 of September 2016 (Decree of the Cabinet of Ministers of Ukraine Office of 06.10.2016 № 36270/0/1-16). By the decision of the Vice-Prime Minister of Ukraine V. Kyrylenko the task to handle the issue concerning the expediency of opening the institute of specialists training in the sphere of physical training and sport for the Ukrainian AF, other military bodies formed under the Law of Ukraine, law enforcement authorities, rescue and other special service at the NDUU named after Ivan Chernyakhovsky has been set to the Ministry of Defense (MD) of Ukraine, The Ministry of Education and Science of Ukraine, Ministry of Interior of Ukraine involving concerned executive branch authorities. This decision is registered in the Orders of the Minister of Defence of Ukraine «On Decision Enforcement of the Board of the Ukrainian MD» of 13 September 2016 № 475 and a year later 30 May 2017 № 298.

Considering the modern requirements to the level of qualification of the physical training specialists, necessity of securing and developing a multilevel system of their education, the Minister of Defence of Ukraine has rendered a decision on creation of the Academic and Research Institute of Physical Culture and Wellness Technologies within the NDUU named after Ivan Chernyakhovsky. Furthermore, the university has received a list of changes concerning the university staff, namely: the department of the development of physical training and sport is created as an organizational staff core of forming the Institute on the basis of the general command paper of the MD of Ukraine and the General Staff of the Ukrainian AF of 16 August 2017 № Д-322/1/5.

The working party of the MD of Ukraine has analyzed the issue of improvement of the training system of personnel of physical training and sport



for the security and defense sector structures of Ukraine. The interest in the centralised training of personnel of physical training in the educational establishment of the MD of Ukraine has been vested by the ministries and administrations. Written confirmations concerning the readiness for the study of representatives of the corresponding military bodies and law enforcement authorities of Ukraine in a stated Institute of the NDUU on the request of the MD of Ukraine from the heads of institutions of the security and defense sector of Ukraine have been received in 2017.

From 1 September 2018 the Institute has begun the training of the specialists on physical training and sport for the Ukrainian AF and law enforcement authorities, namely:

- higher education stage «Bachelor» subject area 01 «Education» major 017 «Physical Education and Sport» specialization «Physical Education, Special Physical Training and Sport in the Armed Forces of Ukraine and Law Enforcement Authorities», licensed capacity – 100 people, intramural form of study; the curriculum of specialist training involves 47 academic disciplines; in the current year 17 cadets have been enrolled to the first year of study;

- higher education stage «Master» major 254 «Sustaining Troops (Forces)» specialization «Organization of Physical Training and Sport of the Troops (Forces) and Law Enforcement Authorities of Ukraine» (intra-mural and extramural form of studies); licensed capacity 20 people; in the current year 7 trainee officers have been enrolled.

Currently the MD of Ukraine conducts the licensing procedure of training of specialists in physical training and sport of higher education stages «Associate» «Physical Training and Sport Instructor» and «Master» in major 017 «Physical Education and Sport» specialization «Physical Education, Special Physical Training and Sport in the Armed Forces and Law Enforcement Authorities of Ukraine».

It is necessary to stress that postgraduate courses of specialists in the issues of organizing and conducting physical training in troops (forces) function in the Institute of the NDUU. Thirty-two specialists of physical training and sport have

completed the course training (advanced training) concerning the issues of organizing and conducting physical training in troops (forces) (for a period of 6 weeks) at the NDUU during 3 years starting in 2016. The conducting of advanced training is also planned for:

- heads of physical training and sport of military units;
- academic and pedagogic staff of Physical Education, Special Physical Training and Sport departments;
- specialists in physical training and sport of structural divisions of the military administration bodies;
- specialists in physical training and sport of establishments of physical education and sport;
- specialists in physical training and sport of the security and defense sector of Ukraine.

The analysis of the system of training of specialists in physical training and sport for the Ukrainian AF has confirmed that in 2010 the department of Theory and Organization of Physical Training (hereinafter – the Department) has been formed at the Military Academy (MA) (Odessa) and obtained a license for a higher education stage «Bachelor» in major 017 «Physical Education and Sport». Nowadays the Department forms a part of the faculty of training of specialists of military intelligence and special appointment, at which 28 specialists in physical education and sport of tactic level have been trained during 8 years. The Department has started a methods of instruction course according to the Combat Army System (CARs) for the Ukrainian AF in 2016. Twenty-four instructors of the CARs have been trained during 3 years. Training of specialists of operational and tactical level of higher education degree of «Master» and instructors on physical training and sport in HMEE have not been conducted. Retraining courses and postgraduate courses for specialists in physical training and sport for the Ukrainian AF at the MA (Odessa) are also not conducted.

We have also analyzed the capability of training of specialists of physical training and sport for the security and defense sector of Ukraine in HMEE (Table 1).



Table 1

Comparative Analysis of Capability of Training of Specialists of Physical Training and Sports for the Security and Defense Sector of Ukraine

№	Types of Training	Capability of Specialist Training during the Academic Year	
		The Institute	Odessa Military Academy
1	Training of specialists of OTL (Master)	up to 20 people	–
2	Training of specialists of TL (Master, Bachelor)	up to 100 people	up to 20 people
3	Training of instructors (Associate)	up to 40 people	–
4	Conducting postgraduate courses	up to 40 people	–
5	Training of specialists of other security agencies of Ukraine	up to 50 people	–

By the Order of the MD of Ukraine of 13.05.2016 № 275 «On Approval of the Concept of Development of Physical Training and Sport in the Ukrainian AF for the Period to 2020» the Institute NDUU is appointed as the main subdivision regarding academic and scientific and technical activity in the sphere of physical training and sport in the Ukrainian AF.

One of the main tasks of the Institute NDUU is performing scientific activity by the way of conducting scientific researches on the pressing issues of the development of physical training and sport in the Ukrainian AF and law enforcement authorities of Ukraine, as well as training of scientific personnel. *Scientific Activity Centre* has been created as a part of the Institute for that purpose. A coordinational and methodological council for regarding issues of the development of physical training and sport that involves lead scientists in the sphere of physical education and sport for the security and defense sector of Ukraine has been created at the NDUU.

Four scientific seminars and eight scientific conferences of All-Ukrainian and international levels have been organized and held by the research group of the Institute. Scientific, academic and pedagogic workers have processed a series of scientific and research papers, namely «Survival», in which the problems of grounding of means of survival and actions of military servicemen in emergency circumstances have been examined. Currently the staff members of the Institute conduct surveillance in scientific and research paper «Harmony» concerning problems of grounding of the norms of physical and psychoemotional loading of military servicemen during conduct of military operations.

Provision of the Institute and the MA (Odessa) with scientific, academic and pedagogic workers, who possess a degree, academic status and have graduated from profession-oriented HMEE in the field of «Military Institute of Physical Education» (MIPE) is demonstrated in Table 2.

Table 2

Comparative Analysis of Scientific, Academic and Pedagogic Workers for Training of Specialists of Physical Training and Sport

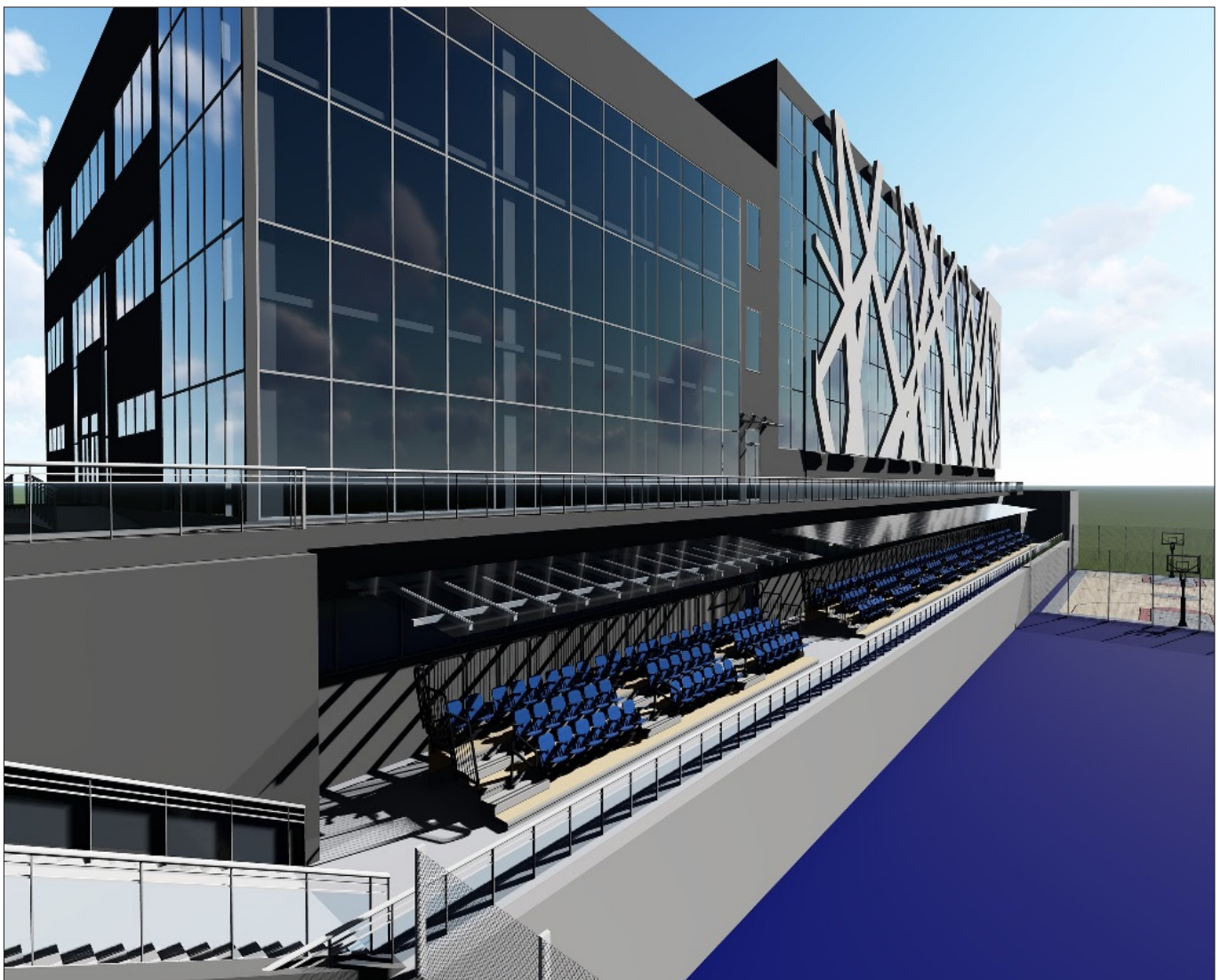
№	Title	The Institute	Odessa Military Academy
1	Doctors of Science	4	–
2	Professors	3	–
3	PhD candidates	7	7
4	Associate professors	4	3
5	SW and APW, who have graduated from MIPE	5	1

The scientific potential of the Institute professors, available conditions concerning attraction of professors of biomedical subjects of the Military and Medical Academy of Ukraine and the National University of Ukraine on Physical Education and Sport to the educational process, as well as educational and material resources of the university with consideration of the use of the Central Sports Club's sports camp of the Ukrainian AF and a sports camp for winter sports «Tysoverts» make possible to perform training of specialists in physical training and sport at a high professional level.

Surely, the further increase in the number of cadets, academic and pedagogic workers will raise pressure on the objects of the university's

infrastructure. The solution of these problems will make possible the building of a modern sports and health centre, constituents of which will be the premises of sporting material and technical facilities, classrooms and a room for academic and pedagogic workers. A development of the project and cost estimating documentation for building of such complex has been planned in 2018, while the construction itself of the modern sports facility is planned for 2019.

The construction of the modern sports centre which is going to include mini-football, basketball, volleyball, badminton courts and a tennis court (overall – 6 courts) has begun on the university premises in late 2015 and which is planned to be finished by 2019.



The comparative analysis of the present educational material and technical facilities for

training specialists in physical education and sport is provided in Table 3.



Table 3

Presence and Capability of the Present Educational Material and Technical Facilities for Securing High-Quality Giving of Training Classes

№	Educational Material and Technical Facilities	The Institute	Odessa Military Academy
1.	Educational training facility for classes in special PT and CArS	–	1
2.	Sports game halls	2	–
3.	Stadium with closed treadmills	1	1
4.	Gym	3	1
5.	Hall of sporting health-improving technologies	1	–
6.	Open training premises (gymnastic area)	2	2
7.	Gymnasium	1	–
8.	Hall for a hand-to-hand combat	2	1
9.	Aquatic sports station	1	–
10.	Swimming pool	CSC swimming pool	–
11.	Shooting range / multimedia range	1/1	1/1
12.	Barrack fund	+	+
13.	Unified obstacle course (2 directions)	1	1
14.	Methodics department	2	1

Barracks and quarters with modern conveniences have also been made for the cadets of the Institute: 4 rooms (crew accommodations system) have been rebuilt, a room of traditions has been created, a room for storage of personal staff of military service-men has been reequipped, a sporting corner with modern cardio machines, a room of domestic services, a drying room, shower rooms, a washing room and a room for a common use.

Conclusions

On the basis of the conducted analysis concerning the state and prospects of the development of staff, scientific and methodological, material and technical facilities in the Military Academy

(Odessa) and the Institute it is possible to sum up that the expansion of the Institute will provide an opportunity for performing a coherent multilevel training of specialists in physical training and sport from the instructor – associate to a military expert of strategic-tactical level for the AF of Ukraine and other structures included to the safety and defence sector of Ukraine on the grounds of the modern sporting material and technical facilities, high level of professionalism of academic, pedagogic and scientific workers.

Conflict of interest

The authors claim that there is no conflict of interest.

References

1. Barkov VI, Verbin NB, Glazunov SI, Zhembrovsky SM, Petrachkov OV. Pro-vision of Physical Training of Servicemen: a tutor's manual. Kiev, NUOU; 2016. 88 p.
2. Campos F, Marques M, Silva S, Martins F, Simoes V, Franco S. Physical self-description and sport participation, by gender, of university students. *Journal of Physical Education and Sport*. 2017; 17 (1): 207-211. DOI:10.7752/jpes.2017.01031
3. Finogenov YS. Physical education, special physical training and sports: textbook. Kiev,



- NUOU named after Ivan Chernya-khovsky; 2014. 468 p.
4. Grishchenko DS. Conceptual directions of improvement of the system of physical training and sport in the Armed Forces of Ukraine in conditions of their reformation and development: Materials of the session of the section of the Military Scientific Council on the military-theoretical issues of the Ministry of Defense of Ukraine. Kiev, Department of Physical Culture and Sports of the MDU, NUOU named after I. Chernyakhovsky; 2016. 232 p.
 5. Hortigüela D, Fernández-Río J, Pérez-Pueyo A. Long-term effects of the pedagogical approach on the perceptions of physical education by students and teachers. *Journal of Physical Education and Sport*. 2016; 16(4): 1326-1333. DOI:10.7752/jpes.2016.04210
 6. Ilynska G, Kozina Z, Kavatska O, Kostiukevych V, Goncharenko V, Bazi-lyuk T, Al-rawashdeh A. Impact of the combined use of health-improving fitness methods (“Pilates” and “Bodyflex”) on the level of functional and psycho-physiological capabilities of students. *Journal of Physical Education and Sport*. 2016; 16(1): 234-240. DOI: 10.7752/jpes.2016.01037
 7. Kokun OM. Professional orientation and competence of future professionals with a “person-person” occupational type. *Social Welfare. Interdisciplinary Approach*. 2012; 2(2): 36-47.
 8. Kostiv SF. Emotional-volitional stability of future military specialists. *Collection of scientific works «Military education»*. Kiev. 2017; 2 (36): 107-116.
 9. On approval of the Concept of development of physical training and sports in the Armed Forces of Ukraine for the period up to 2020: the order of the Ministry of Defense of Ukraine dated May 13, 2016 No. 257 // Ministry of Defense of Ukraine: officer. Website. Available from: www.mil.gov.ua/content/other/MOU2016_257.pdf
 10. On Approval of the Concept of the State Target Social Program for the Development of Physical Culture and Sports for the Period up to 2020: Order of the Cabinet of Ministers of Ukraine dated 12.09.2015 No. 1320-r // Government Portal: Web Portal. Available from: www.kmu.gov.ua/control/uk/cardnpd?docid=248719473
 11. Order of the General Staff of the Armed Forces of Ukraine dated February 11, 2014 No. 35 «On Approval of the Provisional Instruction on Physical Training in the Armed Forces of Ukraine».
 12. Petrachkov OV. Physical training in troops. Practical recommendations (second reprint): Teaching method. manual. Kiev, NUOU; 2017. 273 p.
 13. Platonov VN. Movement and Physical preparation of Athletes. Kiev, Olympic literature; 2017. 656 p.
 14. Romanchuk S. Self-educational technologies of the commanders of cadets units of higher military educational institutions in the field of physical training and sports. *Journal of Physical Education and Sport*. 2015; 15(3): 498-501.
 15. Sergienko Y, Andreianov A. Model of professional readiness of students of higher military schools of the Armed Forces of Ukraine. *Physical Education of Students*. 2013; 6: 66-72.
 16. Verbin NB, Grishchenko DS, Zhembrovsky SM, Petrachkov OV, Romanyuk OA, Finogenov YS. Methodical recommendations for the organization of physical training in a special period: teaching. Manual. Kiev, NUOU; 2015. 68 p.
 17. Vysochina N. Control of sport aggression by the use of training. *Sport. Olympism. Health: materials of the International Scientific Congress, IIIrd edition*. Chisinau, Moldova. Sept.13-15, 2018. 119 p.
 18. Vysochina N, Vorobiova A. Goal-setting in sport and the algorithm of its realization. *Știința culturii fizice*. 2017; 28/2: 108-112.
 19. Vysochina N. Psychological support in long-term preparation of athletes. *Sporto mokslas*. 2016; 4 (86): 2-9.
 20. Vysochina N, Vorobiova A, Vasylenko M, Vysochin F. Volitional qualities of athletes and their influence on competitive activities. *Journal of Physical Education and Sport*. 2018; 18 (1): 230-234.

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