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INTRODUCTION OF COMBAT SAMBO ARSENAL INTO THE HAND-TO-HAND TRAINING SYSTEM OF FUTURE OFFICERS OF THE NATIONAL GUARD OF UKRAINE

Despite the significant number of works in the specified direction of scientific intelligence, the issue of expanding the arsenal of service-applied hand-to-hand combat (with an accented use of technical and tactical combat sambo combinations) future officers of institutions of the security and defense sector of Ukraine – an insufficient number of scientific works is devoted to it, which emphasizes the relevance of the chosen direction of scientific research.

The main goal of the study is the development and testing of pedagogical conditions for the formation of the readiness of future officers of the National Guard of Ukraine (NGU) to engage in hand-to-hand combat with the enemy in various conditions of service-combat activities with an emphasis on the use of combat sambo arsenal. During the empirical research, the following methods were used: axiomatic, idealization, historical and logical, descent from the concrete, mathematical and statistical formalization (criterion χ^2).

Based on the results of the conducted empirical research, the organizational and pedagogical conditions for the

formation of the readiness of future officers of the National Guard of Ukraine to engage in hand-to-hand combat with the enemy in various conditions of service and combat activity were developed and tested (with an accented use of the combat sambo arsenal). The above-mentioned organizational and pedagogical conditions are implemented during 3 main blocks: organizational and diagnostic, corrective and constant. Summarizing the results obtained during the pedagogical experiment, it was established that all the conditions for conducting an empirical study were met. The experimental work had a positive effect on increasing the level of physical and special physical fitness of future NGU officers, which contributed to the increase in the efficiency of their performance of assigned tasks. It is noted that these changes occurred to a greater extent in Eg cadets compared to Kg, and these changes are statistically reliable.

Prospects for further research in the chosen direction of scientific intelligence provide for the improvement of the system of sectional work of future officers of the National Guard of Ukraine from service-applied martial arts.

Keywords: combat sambo, measures of physical impact, empirical research, cadets, educational process, pedagogical experiment, hand-to-hand combat, special physical training, physical training

Хацаюк Олександр, Турчинов Артем, Контаровський Роман, Волянський Володимир, Москаленко Юрій, Нестерчук Дмитро. Впровадження арсеналу бойового самбо в систему рукопашної підготовки майбутніх офіцерів Національної гвардії України. Не дивлячись на значну кількість робіт зазначеного напрямку наукових розвідок, питанням розширення арсеналу службово-прикладного рукопашного бою (із акцентованим використанням техніко-тактичних комбінацій бойового самбо) майбутніх офіцерів інституцій сектору безпеки і оборони України (СБОУ) – присвячено недостатню кількість наукових праць, що підкреслює актуальність обраного напрямку наукової розвідки.

Головною метою дослідження є розроблення та апробація педагогічних умов формування готовності майбутніх офіцерів Національної гвардії України (НГУ) до ведення рукопашної сутички із супротивником у різних умовах службово-бойової діяльності (СБД) із акцентованим використанням арсеналу бойового самбо. Під час емпіричного дослідження були використані наступні методи: аксіоматичні, ідеалізаційні, історичні і логічні, сходження від конкретного, формалізації математично-статистичні (критерій χ^2).

За результатами проведеного емпіричного дослідження розроблено та апробовано організаційно-педагогічні умови формування готовності майбутніх офіцерів Національної гвардії України до ведення рукопашної сутички із супротивником у різних умовах службово-бойової діяльності (із акцентованим використанням арсеналу бойового самбо). Зазначені вище організаційно-педагогічні умови реалізовані упродовж 3 основних блоків: організаційно-діагностичний, коригуючий та константувальний. Підсумовуючи результати отримані під час педагогічного експерименту, встановлено, що всі умови проведення емпіричного дослідження були витримані. Експериментальна робота позитивно вплинула на підвищення рівня фізичної та спеціальної фізичної підготовленості майбутніх офіцерів НГУ, що сприяло підвищенню ефективності виконання ними завдань за призначенням. Відмічається, що ці зміни більшою мірою відбулися у курсантів Ег у порівнянні з Кг, і ці зміни є статистично достовірними.

Перспективи подальших досліджень у обраному напрямку наукової розвідки передбачають удосконалення системи секційної роботи майбутніх офіцерів Національної гвардії України зі службово-прикладних одноборств.

Ключові слова: бойове самбо, заходи фізичного впливу, емпіричне дослідження, курсанти, освітній процес, педагогічний експеримент, рукопашний бій, спеціальна фізична підготовка, фізична підготовка

Articulation of issue and literature route. The armed aggression of the Russian Federation, the tension of the criminal situation, the activation of the collaborationist movement in Ukraine and other social troubles affect the processes that take place in the institutions of the security and defense sector of Ukraine (SDSU). It is important that the representatives of SDSU institutions are ready for today's challenges, in addition, the modernization of the law enforcement system of Ukraine to world standards is actively taking place. The National Guard of Ukraine [1] does not avoid positive changes.

Analyzing the tasks outlined in the Law of Ukraine on the National Guard of Ukraine Art. 2 [1] it is expedient to state, that without a sufficient level of formation of physical and special physical preparedness, and in particular - without the necessary level of formation of skills in the application of measures of physical influence (force) of military personnel of NGU - it is impossible to ensure the performance of tasks as assigned. This emphasizes the relevance of the chosen research direction and its practical component.

The study was carried out in accordance with the plans of scientific research work and research and development works: The Department of Physical Training and Sports of the National Academy of NGU (NANGU, Kharkiv), the Department of Fire and Special Training of the Faculty of Service and Combat Activities of NGU, Kyiv Institute of NGU (KINGU, Kharkiv Kyiv), initiative project "Readiness").

Analysis of literature sources. Current issues of forming the readiness of future officers of SDSU institutions to perform assigned tasks in various conditions of service and combat activity are covered in scientific works: I. Kovalchuk [2], O. Khatsaiuk, A. Voronin, O. Kravchenko [3], V. Shemchuk, O. Khatsaiuk, V. Sokolovsky, A. Kovtunenکو, O. Kornienko, Yu. Mushtatov [4] and others scientists and practitioners: A. Bukhuna, E. Denisenko, O. Lavnichenko.

The works of scientists are interesting in terms of their content and essential characteristics: O. Khatsaiuk, V. Olenchenko, A. Koroleva, O. Kravchenko [5], V. Shemchuk, I. Donets, A. Leonenko, A. Krasilova, S. Kulibaba [6], O. Khatsauk, O. Eliseeva, V. Zhukov, V. Klymenko, Yu. Berezhny [7], A. Turchynov, V. Shemchuk, A. Oderov, V. Klymovich, M. Samorok [8] and other specialists in the above-mentioned direction – which reveal the peculiarities of the formation of the readiness of future officers to use measures of physical influence (force) in various conditions of service and combat activity.

Further analysis of special and reference literature allowed us to determine a number of departmental Instructions,

work programs of educational disciplines, etc. [9-11], which regulate the organization of the system of hand-to-hand training of military personnel (law enforcement officers) of various categories of institutions SDSU.

In terms of empirical research, the work of scientists and practitioners is useful: O. Khatsaiuk, A. Koroleva, S. Solomakhi [12], O. Khurtenko, V. Biloshitskyi, C. Vlaska, S. Partyky, D. Konovalova [13], O. Khatsayuk, K. Ananchenko, O. Khurtenko, S. Dmytrenko, N. Boychenko [14] and other specialists in service-applied martial arts: A. Alekseeva, I. Kovalev, A. Krasilov, V. Lyakh, O. Morgunov, Yu. Radchenko, P. Rybalki – in which topical issues of comprehensive preparation of athletes who specialize in combat sambo are revealed.

In turn, in the works of: I. Danylyuk [15], K. Tushka [16] and other scientists and practitioners: K. Berezyak, V. Bilichenko, Yu. Medvid, A. Kuruch, Ya. Pavlova, V. Sokolovskyi, A. Turchynova, V. Yagupova, O. Yareshchenko – the peculiarities of the construction (development) of modern pedagogical models (conditions) are revealed, which ensure the formation of the readiness of future officers of SDSU institutions to perform assigned tasks in various conditions of service-combat activity (CSCA).

Despite the significant number of works in the specified direction of scientific intelligence, the issue of expanding the arsenal of service-applied hand-to-hand combat (with an accented use of technical and tactical combat sambo combinations) of future law enforcement officers of SDSU institutions - an insufficient number of scientific works is devoted to it, which emphasizes the relevance of the chosen direction of scientific intelligence.

The purpose of the study is to develop and test the pedagogical conditions for the formation of the readiness of future officers of the NSU to engage in hand-to-hand combat with the enemy in various conditions of service-combat activity (with an emphasis on the use of combat sambo arsenal).

To achieve the goal of scientific research it was planned to solve the following tasks:

- 1) conduct an analysis of scientific and methodological and special literature in the direction of forming the readiness of future officers to perform assigned tasks in various conditions of the SSCA;
- 2) to carry out monitoring of Internet resources (analysis of scientific and methodological literature) in the direction of peculiarities of formation of readiness of future officers to use measures of physical influence (force) in various conditions of SSCA;
- 3) to conduct an analysis of special and reference literature (departmental instructions, work programs of educational disciplines, etc.), which regulate the organization of the system of hand-to-hand training of military personnel (law enforcement officers) of various categories of SDSU institutions;
- 4) to determine modern pedagogical models (conditions) for the formation of the readiness of future officers of SDSU institutions to perform assigned tasks in various SSCA conditions.

Research methods: axiomatic, idealization, historical and logical, descent from concrete, mathematical and statistical formalization (criterion χ^2). In addition, the experience of combat operations and the experience of service-combat (operational) activity were used.

Presentation of the main study material. In the dynamics of the second stage of empirical research, the hypothesis that the formation of professional competences was formulated, military-applied skills of service-applied hand-to-hand combat (HTHC), as well as the readiness of future NSU officers to use measures of physical influence, force in extreme conditions of SSCA with an emphasis on the use of combat sambo means – will be more effective if the following organizational and pedagogical conditions are introduced into the system of special physical training (SPT) (Table 1).

The final block of the second stage of the empirical research involved: the organization of a pedagogical experiment in order to test the proposed "organizational and pedagogical conditions" (Table 1) with the involvement of cadets from NANGU and KINGU; carrying out an even distribution of the participants of the pedagogical experiment into 2 groups (control and experimental); definition of independent and dependent variables; definition of the main types of tasks; implementation of data description; establishment of matching characteristics of two groups (control and experimental); determining the difference in the characteristics of two groups (control and experimental), etc.

Table 1

Pedagogical conditions for formation of readiness of future officers of NGU to conduct hand-to-hand combat with the opponent in various SSCA conditions (with an accented use of the combat sambo arsenal)

| Blocks of pedagogical experiment | Descriptive (content) characteristic |
|---|---|
| I. Organizational and diagnostic block: | monitoring of integral indicators of professional competence of future officers of NGU in special physical training; analysis of the current performance of law enforcement cadets in the disciplines: "Physical training", "Special physical training", "Tactical training", "Tactical-special training", as well as related disciplines; diagnosis of the existing level of readiness of representatives of the studied category to engage in hand-to-hand combat with an opponent in simulated (extreme) SSCA conditions; selection of the necessary combat sambo arsenal (shock technique, throws, pain techniques, strangulation, restraint); determination of levels: theoretical, practical, technical and tactical preparedness in the direction of the application of measures of physical influence, force); selection of necessary technical means of training (scientific tools), simulators, selection and testing of means of physical and special physical training (arsenal of combat sambo, wrestling sambo (sports section), which ensure the formation of psychophysical readiness of future officers of |

| | |
|-------------------------------------|---|
| | <p>NGU (SDSU institutions) for the use of physical impact measures (forces) under different SSCA conditions; selection and arrangement of safe locations (places to practice educational questions) for practical practice of combat sambo techniques, hand-to-hand combat (control measures); organization of medical support of the educational and training process, sectional work (control measures); advance preparation and equipment of places of shelter for the participants of the educational and training process in case of danger (air raid, etc.); formation of theoretical knowledge and practical skills necessary for mastering the technique of service-applied hand-to-hand combat (enhanced by the arsenal of combat sambo) in future officers of NGU; development of special complexes of functional training (formation of psychological resistance to actions in extreme conditions of service-combat activity), which ensure successful performance of assigned tasks using combat sambo techniques (service-applied hand-to-hand combat); formation of theoretical knowledge and practical skills of drawing up tactical schemes for conducting duels with an opponent (opponents) using the combat sambo arsenal in simulated SSCA conditions; formation of the ability to self-control the psychophysical state; instructing the participants of the educational and training process on personal and collective safety measures during practical training and control exercises (functional complexes).</p> |
| <p>II. Corrective block:</p> | <p>control of the current performance of cadets of the control and experimental groups in the disciplines: "Physical training", "Special physical training" (other related disciplines of the "combat training" cycle); the organization of psychological and pedagogical support of the educational and training process (during practical classes on special physical training (sectional classes on combat sambo, forms of physical training) in accordance with content modules that ensure the formation of the readiness of representatives of the studied category to apply measures of physical impact, strength (intensified arsenal of combat sambo) in simulated extreme conditions of SSCA; maintaining a high level of theoretical knowledge, namely knowledge: the purpose, technique and tactics of using the combat sambo arsenal in the stance and parterre by future officers of NGU; correction of the main mistakes during practical practice by future officers of NGU of combat sambo techniques (service-applied hand-to-hand combat); adjustment of special physical training methods (complexes of functional fitness); use in the system of special physical training (sectional work on combat sambo, forms of physical training of modern technical training aids, simulators, video-computer systems of biomechanical analysis of movements, psychological methods of forming the psychological resistance of representatives of the studied category to the influence of adverse factors of SSCA, etc.); maintenance of training places for physical and special physical training (places for combat sambo classes, sites for practicing shock techniques and throws of service-applied hand-to-hand combat, as well as places for accompanying physical training) in readiness for their use at different times of the day and time of year, weather conditions, etc.; the readiness of medical service specialists to organize medical support during practical practice of complex techniques of combat sambo and hand-to-hand combat in the system of professional education of future officers (during control measures, etc.); maintenance of the shelters of the participants of the educational and training process in good condition in case of danger (air raid, etc.); adjustment of individual methods of self-control according to the psychophysical condition of those who study as cadets; control on the part of the officials regarding the observance of personal and collective safety measures of the participants of the educational process during the period of working out the quest and situational tasks, which involve the use of the combat sambo arsenal; study of the theoretical provisions of the application of measures of physical influence, force in the composition of divisions (platoon) in different conditions of SSCA; control and adjustment of practical skills of working out tactical schemes for the use of combat sambo (hand-to-hand combat) techniques in various SSCA conditions; adjusting the technique of performing applied physical exercises (functional complexes with SFT means, as well as elements of combat sambo).</p> |
| <p>III. Constant block:</p> | <p>checking the effectiveness of the introduction of physical and special physical training tools, combat sambo arsenal into the system of professional education of future officers of NGU; diagnosis of the level of formation of psychophysical</p> |

| | |
|--|---|
| | readiness of future officers of NGU to perform assigned tasks in simulated extreme conditions of service and combat activity; analysis of the current performance of the students in the discipline "Special physical training"; testing the level of formation of professional competences of the representatives of the researched category necessary for the performance of assigned tasks, which require the use of the military arsenal of service-applied hand-to-hand combat; control of the level of formation of practical skills in the application of combat sambo techniques in the simulated extreme conditions of the SSCA; maintenance of educational material base in good condition; formation and control of the readiness of officials to provide the participants of the educational and training process with safe shelter and organize their evacuation to safe locations in case of danger); checking the effectiveness of compliance with safety measures by participants in the educational process during forms of physical training. |
|--|---|

In the process of further research and analytical work (second stage, March 2022 – January 2023), a pedagogical experiment was organized. The purpose of the experiment is to check the effectiveness (effectiveness) of the pedagogical conditions for the formation of the readiness of future officers of the NSU to engage in hand-to-hand combat with the enemy in various SSCA conditions (with an accented use of the combat sambo arsenal).

Participants of the experiment: cadets of NANGU, KINGU. Taking into account: the existing level of formation of theoretical knowledge and practical skills in physical and special physical training; level of development of military-applied HTHC skills and specifics of training of representatives of the studied category, participants of the experiment were divided into control (Kg, n=24) and experimental (Eg, n=24).

Analyzing the data of the pedagogical experiment, three types of tasks were identified: description of the data, which are subject to analytical and statistical analysis; determination of coincidences of Kg and Eg characteristics; establishment of discrepancies in the characteristics of Kg and Eg. Before the beginning of the pedagogical experiment, the representatives of Kg and Eg did not significantly differ in terms of the level of formation of theoretical knowledge and practical skills in the use of techniques: combat sambo, HTHC in simulated extreme conditions of SSCA, thanks to which the homogeneity of the composition of the studied groups was ensured.

In the future, in accordance with the theoretical provisions, research and experimental work was organized in three stages: "constant stage", "formative stage", "control stage"

It should be emphasized that for the cadets of the Kg who took part in the research and experimental work, the process took place - traditionally (in accordance with the existing training programs, departmental orders, instructions, educational and methodological support complexes, which ensure the formation of professional competences of representatives of the studied category [9- 11]).

1) summarizing the obtained data using the methods of mathematical statistics, the following indicators were obtained: when comparing Kg and Eg before the beginning of the pedagogical experiment, the empirical value of the criterion $\chi^2 = 0.1489$, critical = 7.818 (since the empirical is less than the critical, the characteristics of the compared groups coincide at the 0.05 significance level) – both groups are statistically similar, a condition for carrying out of the constancy experiment was passed;

2) when comparing Kg before the beginning of the experiment and Kg at the end – the empirical value of the criterion $\chi^2 = 3.708$, the critical value - 7.816 (since the empirical value is less than the critical one, the characteristics of the compared groups coincide at the significance level of 0.05) - therefore, Kg and Eg are statistically similar;

3) when comparing Kg and Eg at the end of the pedagogical experiment, it was established that the empirical value of the criterion $\chi^2 = 13.7789$, the critical value = 7.812 (the reliability of the differences in the characteristics of the compared groups is 95%) – both groups are statistically different;

4) when comparing Eg before the beginning of the experiment with Eg at the end - it was found that the empirical value of the criterion $\chi^2 = 25.6039$, the critical value = 7.812 (the reliability of the differences in the characteristics of the compared groups is 95%) – a statistically justified conclusion was made that both groups are statistically different

5) when comparing Eg before the beginning of the experiment with Eg at the end – it was found that the empirical value of the criterion $\chi^2 = 25.6039$, the critical value = 7.812 (the reliability of the differences in the characteristics of the compared groups is 95%) - a statistically justified conclusion was made that both groups are statistically different.

The detailed results of diagnosing the level of readiness of cadets Kg and Eg to engage in hand-to-hand combat with the opponent in various conditions of SSCA with an accented use of combat sambo arsenal are given in table 2.

Table 2

Dynamics of levels of formation of readiness of cadets Kg and Eg to to conduct hand-to-hand combat with the opponent in various conditions of SSCA (with an accented use of the combat sambo arsenal)

| Levels of formation | Groups of cadets | | | | | |
|---------------------|------------------|--------------------|-------------------|------------------|--------------------|-------------------|
| | Kg, n=24 people. | | | Eg, n=24 people. | | |
| | to exp., % | at the end exp., % | dynam., people, % | to exp., % | at the end exp., % | dynam., people, % |
| "very tall" | 3/13 | 5/21 | 2/8 | 2/8 | 8/33 | 6/25 |
| "high" | 4/17 | 6/25 | 2/8 | 5/21 | 9/38 | 4/17 |

| | | | | | | |
|-----------|------|-------|--------|------|------|--------|
| "average" | 8/33 | 11/46 | 3/13 | 8/33 | 6/25 | -2/-8 |
| "low" | 9/37 | 2/8 | -7/-29 | 9/38 | 1/4 | -8/-34 |

The analysis of the obtained numerical (%) data proved the positive dynamics of the formation of the readiness of Eg cadets to use measures of physical influence (force) in the simulated extreme conditions of the SSCA due to the accentuated use of the combat sambo arsenal. In addition, analyzing the obtained results, it was established that during the pedagogical experiment, the number of Eg cadets with a low level of readiness to use service-applied hand-to-hand combat in simulated extreme SSCA conditions significantly decreased by 34%, at the same time, the number of cadets who have a "very high" level of formation of the above-mentioned readiness increased by 25%. Among the respondents of Kg, the changes are not significant (Table 2).

Conclusion. Based on the results of the conducted empirical research, the organizational and pedagogical conditions for the formation of the readiness of future officers of the NGU to engage in hand-to-hand combat with the enemy in various conditions of service-combat activity (with an accented use of the combat sambo arsenal) were developed and tested.

The above-mentioned organizational and pedagogical conditions are implemented during 3 main blocks: organizational and diagnostic, corrective and constant. Summarizing the results obtained during the pedagogical experiment, it was established that all the conditions for conducting an empirical study were met. The experimental work had a positive effect on increasing the level of physical and special physical fitness of future officers of NGU, which contributed to increasing the efficiency of their performance of assigned tasks.

Analyzing the obtained results, it is appropriate to conclude that the representatives of Eg have significantly expanded the technical arsenal of service-applied hand-to-hand combat, thanks to the arsenal of combat sambo. In addition, there was an increase in the technique and tactics of applying measures of physical influence (force) in the simulated extreme conditions of the SSCA. (in the process of working out quest and situational tasks).

The results of the study are implemented in the system of physical and special physical training of NANGU and KINGU cadets. Prospects for further research in the chosen field of scientific intelligence provide for the improvement of the system of sectional work of future officers of the NGU.

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