

MINISTRY OF DEFENSE OF UKRAINE
NATIONAL DEFENSE UNIVERSITY OF UKRAINE



EDUCATIONAL AND SCIENTIFIC PROGRAM
“ Physical education and sports in the Armed Forces - DF ”

third (educational and scientific) level of higher education

specialty № 017 Physical culture and sports
field of knowledge № 01 Education / Pedagogy

APPROVED BY THE SCIENTIFIC COUNCIL OF
THE NATIONAL DEFENCE UNIVERSITY OF
UKRAINE
(Protocol No. 9 dated 21.08.2023)

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PREFACE

The educational and scientific program "Physical Education and Sports in the Armed Forces - PF" of the third (educational and scientific) level of higher education for the preparation of Doctors of Philosophy in the field of 01 "Education / Pedagogy" in the specialty 017 "Physical Culture and Sports" is developed in accordance with the requirements of the Law of Ukraine "On Higher Education" (as amended), Resolutions of the Cabinet of Ministers of Ukraine № 261 of 23. 03.2016 "Procedure for the training of applicants for the degree of Doctor of Philosophy and Doctor of Science in higher education institutions (research institutions)" (as amended) and №1341 of 23. 11.2011 "On Approval of the National Qualifications Framework" (as amended by CMU Resolutions No. 509 of 12.06.2019 and No. 519 of 25.06.2020), Order of the Ministry of Defense of Ukraine No. 65 of 15.02.2019 "On the Distribution of the Main Areas of Scientific Research between Scientific Institutions, Higher Military Educational Institutions, Military Educational Units of Higher Educational Institutions of the Ministry of Defense of Ukraine and the Armed Forces of Ukraine".

The educational and scientific program "Physical Education and Sports in the Armed Forces - PES" is developed taking into account the recommendations and recognized scientific practices of scientific education of the European Education Area, in particular: Salzburg Principles (Salzburg I Conclusion and Recommendation from the Bologna Seminar on "Doctoral Programs for the European Knowledge Society", 2005 & Salzburg II "Initiative Recommendations of the European University Association", 2010).

Developed by a working group consisting of:

Chairman - Leading Researcher of the Research Laboratory for Scientific Support of the Development of Norms and Standards of Physical Training and Sports of the Research Center for Physical Education, Special Physical Training and Sports, employee of the Armed Forces of Ukraine Nadiia VYSOCHENA, Doctor of Science in Physical Education and Sports, Senior Researcher;

Members:

Head of the Educational and Research Institute of Physical Culture and Sports and Recreation Technologies Oleksandr PETRACHKOV, Honored Worker of Physical Culture and Sports of Ukraine, Candidate of Pedagogical Sciences, Associate Professor Colonel;

Deputy Head of the Educational and Research Institute of Physical Culture and Sports and Recreation Technologies Oleksii KUVSHYNOV, Doctor of Technical Sciences, Professor, Colonel;

Head of the Research Center for Problems of Physical Education, Special Physical Training and Sports Dmytro OLENEV, Doctor of Pedagogical Sciences, Associate Professor Colonel;

Head of the Department of Physical Education, Special Physical Training and Sports Serhii ZHEMBROVSKYI, Candidate of Pedagogical Sciences, Associate Professor Colonel;

Lecturer of the Department of Physical Education, Special Physical Training and Sports, Lieutenant Colonel Serhii KOSTEV, Doctor of Philosophy (011

Education, Pedagogical Sciences), Lieutenant Colonel (graduated in 2020);

Adjunct of the Scientific and Methodological Center for the Organization of Scientific and Technical Activities Lieutenant Colonel Vitalii POLIVANIUK;

Stakeholders involved:

Deputy Chief of the General Staff of the Armed Forces of Ukraine Colonel Volodymyr KOVAL, Candidate of Military Sciences, Senior Researcher Colonel;

Head of the Department of Physical Culture and Sports of the Ministry of Defense of Ukraine Yurii FINOGENOV, Honored Worker of Physical Culture and Sports of Ukraine, Candidate of Pedagogical Sciences, Professor;

Deputy Director - Head of the Division for Organization of Educational Activities of the Department of Military Education and Science of the Ministry of Defense of Ukraine Colonel Maksym KASIANENKO, Candidate of Military Sciences, Colonel.

Guarantor of the educational and scientific program:

Leading Researcher at the Research Laboratory for Scientific Support of the Development of Norms and Standards for Physical Training and Sports at the Research Center for Physical Education, Special Physical Training and Sports, employee of the Armed Forces of Ukraine Nadiia VYSOCHENA, Doctor of Science in Physical Education and Sports, Senior Researcher.

Reviews and feedback from external stakeholders:

Head of the Department of Physical Education, Special Physical Training and Sports of the Hetman Petro Sahaidachnyi National Army Academy Serhii ROMANCHUK, Honored Worker of Physical Culture and Sports of Ukraine, Doctor of Science in Physical Education and Sports, Professor Colonel;

Head of the Department of Sports Games at the Prydniprovya State Academy of Physical Culture and Sports, Olena MITOVA, Doctor of Science in Physical Education and Sports, Associate Professor;

Head of the Department of Special Physical Training of the National Academy of Internal Affairs Valentyn BONDARENKO, Doctor of Pedagogical Sciences, Professor, Major of Police;

Professor of the Department of Physical Education and Sports Pedagogy, Borys Grinchenko Kyiv University Ruslana SUSHKO, Doctor of Science in Physical Education and Sports, Professor;

Professor of the Department of Physical Education, Special Physical Training and Sports of the Zhytomyr Military Institute named after S.P. Koroliov Colonel Kostiantyn PRONTENKO, Doctor of Pedagogical Sciences, Professor.

1. Profile of the educational and scientific program "Physical Education and Sports in the Armed Forces - DF" in the specialty 017 "Physical Culture and Sports"

1 – General information	
Full name of the higher education institution and structural unit	Ivan Chernyakhovsky National Defense University of Ukraine The National Defence University of Ukraine named after Ivan Chernyakhovskyi
Degree of higher education and title of qualification in the original language	Doctor of Philosophy in Education/Pedagogy, specializing in Physical Education and Sports Philosophy Doctor, Philosophy Doctor of Physical education and sport
Official name of the educational and scientific program	Physical education and sport Physical education and sport
Type of diploma and scope of the educational and scientific program	Diploma of Doctor of Philosophy The volume of the educational component is 40 ECTS credits, the term of study is 4 years
Availability of accreditation	Not accredited
Cycle/level	NQF of Ukraine - 3rd cycle / level 8, QF-EHEA - third cycle / EQF-LLL- level 8
Background	Master's degree is required
Language(s) of instruction	Ukrainian, English
Validity of the educational and scientific program	4 years
Internet address of the permanent placement of the description of the educational and scientific program	https://nuou.org.ua
2 – The purpose of the educational and scientific program	
Training of highly qualified, competitive military specialists, integrated into the global scientific and information space, capable of producing new ideas, solving complex problems in the field of physical culture and sports, mastering the modern methodology of scientific and scientific-pedagogical activities, as well as conducting their own scientific research in the subject area (Olympic and professional sports, special <i>physical</i> training and sports, physical education, physical activity and health of various population groups), The results of which have scientific novelty, theoretical and practical significance, taking into account the peculiarities of military service.	
3 – Characteristics of the educational and scientific program	
Subject area (field of knowledge, additional specialty / specialization (if any))	<i>Field of knowledge: 01 - Education / Pedagogy. Specialty: 017 - Physical culture and sports.</i>

Orientation of the educational and scientific program	Research and innovation.
The main focus of the educational and scientific program	The program helps to master the content and methods of scientific research in the field of physical culture and sports. It provides for the generation of the main types of competencies of a Doctor of Philosophy, capable of carrying out research and scientific and pedagogical activities in higher education institutions, scientific institutions and military management bodies of the Ministry of Defense and the Armed Forces of Ukraine. Keywords: methodology, education system, educational technologies, modern system of sport, physical education, physical training and sport, scientific activity.
Program features	The program provides an opportunity to form an individual educational trajectory for a higher education student; ensures his/her professional development as a researcher, academic and military specialist. The peculiarity of the program lies in its competence-based, contextual, andragogical and subject-activity conceptual approaches, which take into account the country's strategic course towards Euro-Atlantic integration and provide training of specialists capable of solving pedagogical problems in the system of physical culture and sports, military education and science. Particular attention is paid to the specifics of scientific and pedagogical research, methods of teaching physical education, general military and military-specialized disciplines. The content of the scientific component of the EPP is determined by the individual plan of the applicant's scientific work.
4 – Suitability of graduates for employment and further education	
Suitability for employment	The field of employment of a Doctor of Philosophy in Physical Culture and Sports is institutions and establishments subordinated to the Ministry of Defense of Ukraine and the General Staff of the Armed Forces of Ukraine and other components of the security and defense sector of Ukraine: higher education institutions, scientific institutions, institutions of advanced training and postgraduate education.
Further training	Graduates can continue their education to obtain a doctoral degree, participate in postdoctoral programs.
5 – Teaching and evaluation	
Teaching and learning	Partnership cooperation of teachers and students is based on competence-based, contextual, subjective and activity-based, axiological and andragogical approaches to education, professionally oriented contextual learning and research activities. In general, the problem-oriented and contextual approaches to teaching are applied. Teaching is based on the principles of academic integrity, collegiality, responsibility and high academic culture. The main types of classes are lectures, seminars, consultations, independent work, practical and group classes, case studies, etc.
Evaluation	Current control (surveys, individual tasks for the preparation of parts of the dissertation research). Final control (examinations, differentiated test). Public defense of the result of scientific achievement in the form of a dissertation.

6 – Program competencies	
Integral competence	Ability to solve complex problems in professional or research activities in the field of physical culture and sports, which involves a thorough rethinking of existing and creation of new holistic knowledge.
General competencies	<p>GC 1. Ability to critically analyze philosophical and ideological problems of socio-political and administrative activities in the context of the values of modern civilization and analyze the results of scientific activity.</p> <p>GC 2. Formation of a systematic scientific outlook, professional ethics and general cultural outlook.</p> <p>GC 3. Ability to organize own scientific research: formulate and solve scientific problems, independently conduct thorough research, the results of which have scientific novelty, theoretical and practical significance.</p> <p>GC 4. Ability to search, process and analyze information from various sources, apply modern methods of scientific research, modeling, information and communication technologies.</p> <p>GC 5. Ability to present scientific results in the state and foreign language in oral and written form, as well as to understand scientific texts and terminology.</p> <p>GC 6. Ability to apply the methodology of scientific and educational activities, to be able to quickly adapt to changes and creatively apply the latest scientific technologies, to show flexibility of thinking.</p> <p>GC 7. Ability to organize the work of a research team in solving urgent problems in the field of physical culture and sports.</p> <p>GC 8. Ability to organize the educational process in a higher education institution, develop resources for the educational process.</p> <p>GC 9. Ability to communicate in a foreign language at the international level to implement an innovative project or solve a scientific problem.</p>
Special (professional, subject-orientated) competencies	<p>SC 1. Ability to perform tasks for the development and evaluation of their own educational and scientific activities, to determine the level of professional competence.</p> <p>SC 2. Ability to conduct a scientific analysis of research results and use them in practice.</p> <p>SC 3. Ability to implement projects, including own research, that allow to rethink the existing and create new holistic knowledge and/or professional practice and solve significant social, scientific, cultural, ethical and other problems related to sustainable development in the field of physical culture and sports.</p> <p>SC 4. Ability to collect and analyze scientific information, take into account current trends in the development of physical culture and sports and use scientific achievements in professional activities.</p> <p>SC 5. Ability to initiate, develop and implement complex innovative projects in the field of physical culture and sports and related interdisciplinary projects, conduct patent and license searches, prepare applications for grants for the development of scientific research, leadership in their implementation.</p> <p>SC 6. Ability to perform original research, achieve scientific results that create new knowledge in the field of theory and methodology of physical culture and sports.</p> <p>SC 7. Ability to plan the educational and training process using modern research methodology and innovative tools.</p> <p>SC 8. Ability to present and discuss the results of scientific research in Ukrainian and English orally and in writing; deep understanding of English-language scientific texts in the field of research.</p>
7 – Program learning outcomes	

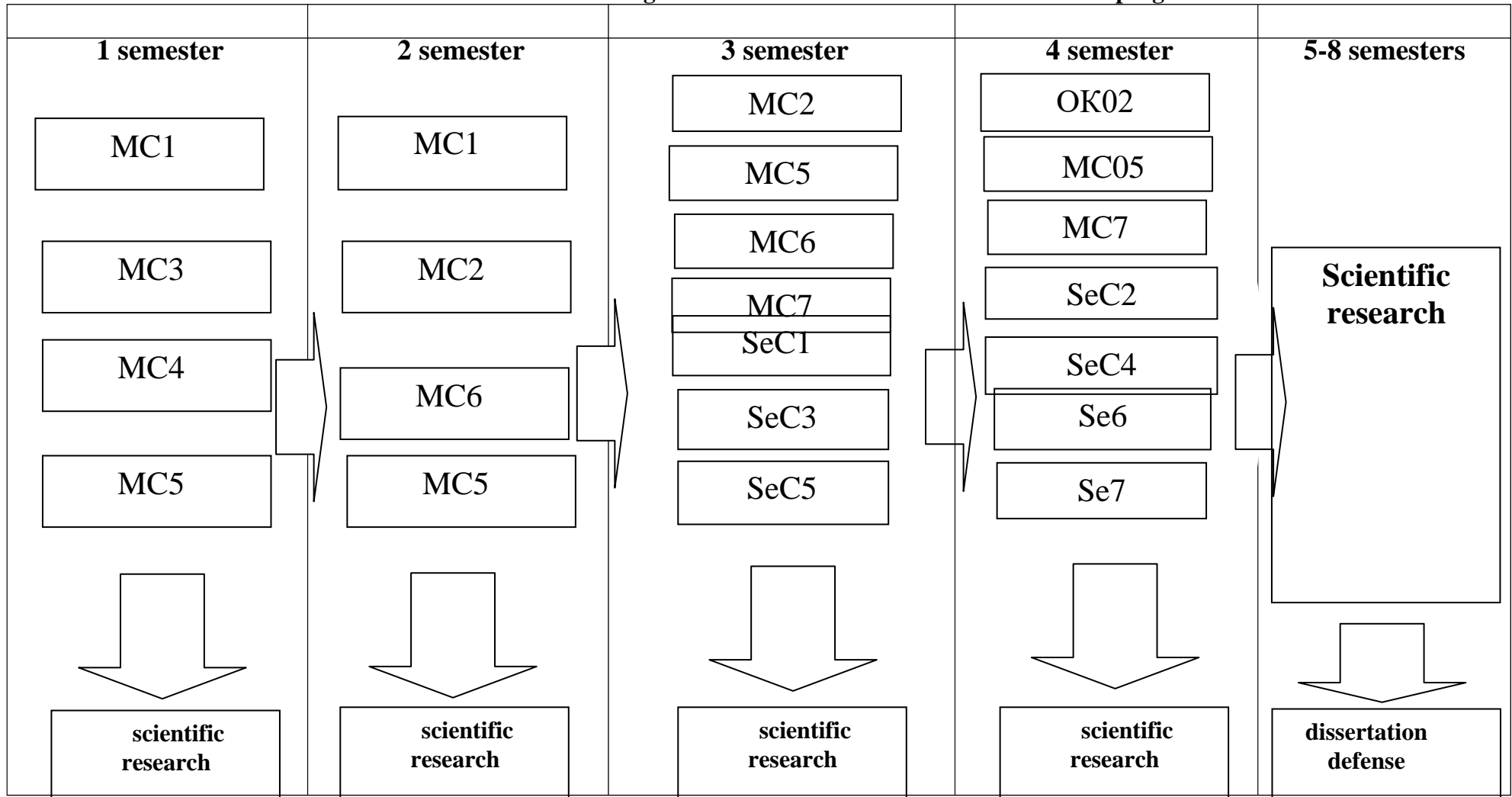
Program learning outcomes	<p>LO 01. To reproduce basic knowledge of the fundamental principles of philosophy of science to the extent necessary for professional activity; knowledge of concepts, theories and methods necessary for the study and understanding of the means and mechanisms of human cognition and their use in the field of scientific, pedagogical and scientific activity.</p> <p>LO 02. Demonstrate knowledge and understanding of an in-depth level in solving scientific problems in the field of physical culture and sports through the application of a set of modern research methods and techniques.</p> <p>LO 03. Demonstrate mastery of the basics of oral and written communication in a foreign language (at B2 level according to the international scale of foreign language proficiency).</p> <p>LO 04. Apply modern tools and technologies for searching, processing and analyzing information, in particular, statistical methods for analyzing large and/or complex data, specialized databases and information systems.</p> <p>LO 05. Plan and carry out experimental and/or theoretical research in physical culture and sports and related interdisciplinary areas using modern tools and equipment, critically analyze the results of their own research and the results of other researchers in the context of a set of modern knowledge about the problem under study.</p> <p>LO 06. Integrate existing methods and techniques of scientific research into pedagogical practice and adapt them to solve specific scientific and pedagogical problems in conducting dissertation and other scientific and pedagogical research.</p> <p>LO 07. To improve the level of pedagogical competence based on the study, analysis and systematization of current trends in the development of general and vocational education, pedagogical science in Ukraine and in the world.</p> <p>LO 08. Demonstrate successful research activities; organize, conduct and document the results of scientific and pedagogical research.</p> <p>LO 09. Be able to generate ideas, hypotheses of scientific research at the theoretical level, develop an evidence base, identify patterns inherent in the field of physical culture and sports.</p> <p>LO 10. Independently develop innovative complex research projects, be able to use (and recognize) the results of the work of other members of the research team, conduct patent and license searches and prepare applications for grants for the development of research.</p>
8 – Resource support for program implementation	
Personnel support	Academic staff who carry out the educational process for the implementation of the program comply with the Licensing Conditions for the Conduct of Educational Activities in the Field of Higher Education, approved by the Resolution of the Cabinet of Ministers of Ukraine of December 30, 2015 No. 1187.
Logistical support	The area of classrooms for the educational process for the implementation of the program, the level of provision of computer workstations and multimedia equipment, social and household infrastructure meet the requirements set out in the Licensing Conditions for Educational Activities in Higher Education, approved by the Resolution of the Cabinet of Ministers of Ukraine No. 1187 of December 30, 2015, and are sufficient to ensure the quality of the educational process.

Information and educational support	<p>The library of the National Defense University of Ukraine named after Ivan Cherniakhovskyi is provided with scientific professional periodicals of the relevant profile, including in electronic form. There is access to databases of periodicals in English. There is an official website of the NUI: https://nuou.org.ua, which contains basic information about the educational and scientific program, curriculum, syllabi of educational components, educational, educational and scientific, publishing activities of the IHE and its structure, educational and scientific structural units and their composition, admission rules, contact information, etc. Available: Internet access; wireless Internet access points; Moodle learning environment.</p> <p>Educational and methodological support: curricula; work programs of academic disciplines; educational and methodological support for each academic discipline of the curriculum; didactic materials for independent and individual work of students in the disciplines; textbooks, manuals, lecture notes, etc. according to the list of recommended literature for each academic discipline, the number of which meets the established requirements.</p> <p>Students have access to information and teaching and learning support free of charge.</p>
9 – Academic mobility	
National credit mobility	It is carried out in accordance with agreements and memorandums of scientific and technical cooperation with the institutions of the National Academy of Sciences of Ukraine, higher education institutions and scientific organizations on scientific and scientific and technical cooperation.
International credit mobility	This is carried out in accordance with the requirements established by the legislation of Ukraine for the protection of state secrets. In accordance with cooperation agreements with foreign military universities, joint educational and research projects (ERASMUS DEEP UKRAINE Program), and participation in international conferences.
Training of foreign applicants for higher education	Under separate agreements within the framework of educational and research projects.

2.1. List of components of the educational and scientific program and their logical sequence

number	Components of the educational professional program (academic disciplines, course projects (works), internships, qualification work)	Number of credits	Form summary. Control
I. Mandatory components of the educational and scientific program			
1. Obtaining general scientific (philosophical) competencies			
MC1	Philosophy and methodology of science	3	E
MC2	Methodology and theory of military pedagogy and pedagogy of physical culture and sports	6	E
2. Obtaining universal research skills			
MC3	Methodology and methods of scientific research in the field of physical culture and sports	3	E
MC4	Application of modern information technologies in scientific activities	3	DT
3. Obtaining language competencies			
MC5	Foreign language in scientific activity	6	E
4. Gaining in-depth knowledge of the specialty			
MC6	Professional and pedagogical competence of a scientific and pedagogical and research worker	3	E
MC7	Scientific and pedagogical practice	4	DT
Total amount of mandatory components:		28	
5. Scientific component			
	Scientific research	200	defense
II. Selected components			
SeC 1	Scientific and pedagogical activities of physical education and sports teachers	4	DT
SeC 2	Methods of multidimensional statistical analysis of the results of scientific research in the field of physical culture and sports	4	DT
SeC 3	Applied methods by research topic	4	DT
SeC 4	Patent and license search in physical culture and sports	4	DT
SeC 5	Current Problems of Special Physical Training and Sports of Military Personnel in the Military-Professional Environment	4	DT
SeC 6	Innovative technologies and methods in physical education and sports	4	DT
SeC 7	Psychological research in the field of sports activity	4	DT
Total volume of selected components of the PhD student		12	
The applicant chooses 3 academic disciplines from the list of elective disciplines from this EP or other EPs with a total of 12 ECTS credits.			
Total volume of the educational component of the program		40	
Total volume of the scientific program		200	
Total amount of training of the applicant		240	

2.2 Structural and logical scheme of the educational and scientific program.



3. Forms of certification of higher education applicants

Public defense of scientific achievements in the form of a dissertation.

Attestation is carried out openly and publicly, subject to the requirements of the legislation of Ukraine in the field of state secret protection.

A prerequisite for admission to the defense is the successful completion of the individual curriculum and individual research plan by the applicant.

Attestation is completed by issuing a document of the established form on awarding the degree of Doctor of Philosophy to the applicant.

4. The system of internal quality assurance of higher education

The University has a system of quality assurance of educational activities and quality of higher education (internal quality assurance system), which provides for the following procedures and measures:

1) defining the principles and procedures for ensuring the quality of higher education;

2) monitoring and periodic review of educational programs;

3) annual evaluation of higher education students, research and teaching staff of the higher education institution and regular publication of the results of such evaluations on the official website of the higher education institution, on information stands and in any other way;

4) providing advanced training for pedagogical, scientific and research staff;

5) ensuring the availability of the necessary resources for the organization of the educational process, including independent work of students, for each educational program;

6) ensuring the availability of information systems for effective management of the educational process;

7) ensuring publicity of information about educational programs, degrees of higher education and qualifications;

8) ensuring the observance of academic integrity by employees of higher education institutions and higher education students, including the creation and maintenance of an effective system for the prevention and detection of academic plagiarism;

9) other procedures and measures.

The system of ensuring the quality of educational activities and the quality of higher education by a higher education institution (internal quality assurance system), upon submission of a higher education institution, is evaluated by the National Agency for Quality Assurance in Higher Education (NAQA) or its accredited 17 independent institutions for evaluation and quality assurance of higher education for its compliance with the requirements for the quality assurance system of higher education approved by NAQA and international standards and recommendations for quality assurance in higher education.

7. List of research areas for higher education applicants

1. Development of motor skills of servicemen of different categories in the process of physical education.
2. Development of physical qualities in servicemen of different categories by means of cross-fit in the process of physical education.
3. Methods of determining individual motor activity of servicemen of different categories in the process of physical education.
4. Gender approach to the formation of individual physical culture of military personnel in the process of physical education.
5. Programming physical education and recreation classes for military personnel using various means.
6. Individual peculiarities of adaptation of servicemen-athletes to physical activity in different conditions.
7. Comprehensive assessment of the fitness of different categories of servicemen in various military applied sports.
8. Psychological and pedagogical features of training different categories of servicemen in different military applied sports.
9. System of sports and pedagogical control of training of different categories of servicemen in different sports.
10. Deontological training of future teachers of physical education, special physical training and sports.
11. Implementation of Data Mining technology for training different categories of military personnel in different sports.
12. Preparation of future physical education specialists for innovative professional activity.
13. Improvement of special physical fitness of servicemen at different stages of training (on the example of Special Forces).
14. Integral training of skilled climbers in modern conditions of combining narrow specialization and universalization of athletes.
15. Comprehensive development of physical qualities of different categories of servicemen by means of physical education.
16. Methodology for determining sports career guidance for different categories of military personnel.
17. Physical training of women servicewomen in the Joint Forces Operation area.
18. Sports and recreation technologies and their impact on the psychophysical state of military personnel.
19. Orientation of training of military athletes (specialists in physical culture and sports) taking into account functional asymmetry.
20. Integration of innovative technologies in the process of training future specialists in physical culture and sports.
21. Control of technical and tactical (psychological) preparedness of sportsmen-soldiers in the conditions of professional and applied activity.
22. Other topics of the PhD student's choice that are of significant interest to the field of physical culture and sports in general and to the Armed Forces of Ukraine in particular.