MINISTRY OF DEFENSE OF UKRAINE NATIONAL DEFENCE UNIVERSITY OF UKRAINE



EDUCATIONAL AND SCIENTIFIC PROGRAM

"Supply of troops (forces)"

the third (educational and scientific) degree of higher education

Specialty	254 Supply of troops (forces)
Area of expertise	25 Military sciences, national security, state border
	security

LETTER OF APPROVAL OF THE EDUCATIONAL AND SCIENTIFIC PROGRAM

"Support of troops (forces)"

Level of higher education	third (educational and scientific)
Degree of higher	Doctor of Philosophy
education	
by specialty	254 Supply of troops (forces)
area of expertise	25 Military sciences, national security, state border security

Ministry of Defense of Ukraine

APPROVED BY Director of the Department of Military Education and Science of the Ministry of Defense of Ukraine

Volodymyr MIRNENKO

"____" _____ 2024.

Developed and introduced

Head of development

Professor of the Department of Geospatial Support and Application of Space Systems of the National Defense University of Ukraine colonel

Mikhail RAKUSHEV

INTRODUCTION

The educational and scientific program "Provision of Troops (Forces)" of the third (educational and scientific) level of higher education for the preparation of Doctors of Philosophy in the field of knowledge "Military Sciences, National Security, State Border Security" in the specialty "Provision of Troops (Forces)" 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 of 23. 03.03.2016 № 261 "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 from 23. 11.2011 No. 1341 "On Approval of the National Qualifications Framework" (as amended by the resolutions of the Cabinet of Ministers of Ukraine of 12.06.2019 No. 509 and 25.06.2020 No. 519) and the order of the Ministry of Defense of Ukraine of 15.02.2019 No. 65 "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 "Support of Troops (Forces)" was developed taking into account the recommendations and recognized scientific practices of scientific education in 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:

Laureate of the Borys Paton National Prize of Ukraine, Doctor of Technical Sciences, Senior Researcher RAKUSHEV Mykhailo Yuriiovych,

Doctor of Economics, Associate Professor Mykola TKACH,

Doctor of Technical Sciences, Professor KURTSEITOV Tymur Lenurovych,

Candidate of Military Sciences, Associate Professor Mykola PIDHORODETSKYI.

Stakeholders involved:

Deputy Head of the University for Scientific Work of the National Defense University of Ukraine, Candidate of Military Sciences, Professor, Pavlo SHYPANSKYI,

Doctor of Historical Sciences, Professor Ihor FURMAN;

Yurii MATVIICHUK, Associate Professor (full-time) of the National Defense University of Ukraine. Reviews and feedback from external stakeholders:

Director of the Department of Military Education and Science of the Ministry of Defense of Ukraine, Honored Worker of Education of Ukraine, Doctor of Technical Sciences, Professor MIRNENKO Volodymyr;

Deputy Chief of Staff of the Support Forces Command of the Armed Forces of Ukraine, Honored Inventor of Ukraine, Doctor of Technical Sciences, Professor, Colonel Volodymyr Kotsiuruba

Deputy Chief of the State Research Institute of Aviation, Doctor of Technical Sciences, Associate Professor, Colonel Oleksii KONONOV.

1. PROFILE OF THE EDUCATIONAL AND SCIENTIFIC PROGRAM

"Supply of troops (forces)"

in the specialty 254 Supply of troops (forces)

1 – General information								
Full name of the higher education institution and subdivision	The National Defence University of Ukraine, Institute of Logistics and Support of Troops (Forces).							
Higher education degree and qualification	Philosophy Doctor, Philosophy Doctor of Military Management by Branches of the Armed Forces in the Sector of Military Sciences, National Security, State Border Security in the specialty Military and defence							
The official name of the educational program	Supply of troops (forces)							
Diploma Type for the educational program scope	Diploma of Doctor of Philosophy in the field of knowledge "Military Sciences, National Security, State Border Security" in the specialty "Support of Troops (Forces)", single, the volume of the educational component is 46 ECTS credits. The term of study is 4 years.							
Accreditation availability	Certificate of accreditation of NAAQA dated 29.07.2021 No. 2021 (valid until 01.07.2027)							
Cycle/degree	NQF of Ukraine - 3rd cycle / 8th level, QF-EHEA - third cycle, EQF-LLL- level 8							
Preconditions	Availability of the second (master's) level of higher education. Admission conditions are determined by the "Rules of Admission to the National Defense University of Ukraine" approved by the Academic Council of the University							
Language(s) of instruction	Ukrainian and English							
The duration of the educational program	4 years							
Internet address of permanent program placement	https://nuou.org.ua/							
2 -	The purpose of the educational program							
Ensure the training personnel capable of innovative scientific	of highly qualified scientific and scientific-pedagogical f solving significant problems and independently conducting and technical research, the results of which have theoretical							

and practical significance in the field of supplying troops (forces).

	3 – Characteristics of the program
Subject area (area	The object of study is advanced achievements and current
of knowledge,	problems in the field of troop (force) support.
specialty,	Learning objectives: acquiring the ability to solve
specialization (if	significant problems in the field of troops (forces) support,
any))	expanding and reassessing existing knowledge and
	professional practice, initiating, planning, implementing and
	adjusting a consistent process of thorough scientific
	research in compliance with proper academic integrity,
	critical analysis, evaluation and synthesis of new and
	complex ideas.
	Theoretical content of the subject area - the basic laws,
	regularities, categories, concepts, principles and methods
	related to theoretical and experimental research in the field
	of troops (forces) support.
	Methods, techniques and technologies of scientific
	cognition: theoretical, general logical, empirical methods of
	scientific knowledge, analysis, synthesis, methods of
	mathematical modeling, information systems and
	technologies related to theoretical and experimental research
	in the field of troops (forces) support.
Educational	Educational and scientific (Doctor of Philosophy),
program orientation	academic.
	Scientific research in the field of supplying troops (forces).
	The educational and research program is aimed at training
	highly qualified scientific and scientific-pedagogical
	personnel capable of solving current problems and
The main	independently conducting innovative scientific and
educational	scientific-technical research, the results of which have
program focus and	theoretical and practical significance in the field of troop
specialization focus	(force) support.
	Keywords: armed forces, supply of troops (forces), types of
	supply of troops (forces), support forces, military economy,
	rear of the armed forces, logistics support of military
	formations, history of military art, moral and psychological
	support.
Program	The program is focused on an integrated approach to
peculiarities	training specialists in all types of support for troops (forces)
	without exception and allows you to form an individual
	educational trajectory.
	The scientific component of the educational and scientific
	program is determined by the individual plan of the
	applicant's scientific work.
4 – Graduates	applicability for further employment and education
Graduates	Scientific and scientific-pedagogical positions in higher

applicability	military educational institutions, military units of higher education institutions, scientific institutions and military												
	authorities.												
Further	Doctoral degree, advanced training at leading universities												
education	and research institutions.												
	5 – Teaching and evaluation												
Teaching and	Problem-based learning with the acquisition of competencies												
studying	necessary to solve current complex problems in the field of												
	supplying troops (forces). Mastering the methodology of												
	scientific and pedagogical work in higher education.												
	The main types of classes are lectures, seminars,												
	consultations, and independent work.												
Evaluation	Current control (surveys, individual tasks for the												
	preparation of parts of the dissertation research).												
	Final control (exams, differentiated tests).												
	Public defense of scientific achievements in the form of												
	dissertation.												
	6 – Program competencies												
Integral	Ability to solve complex problems in the field of military												
competence	sciences, national security, state border security and/or												
	research and innovation activities in the field of troops												
	(forces) support and to generate new ideas in the course of												
	professional activities that involve rethinking existing and												
	creating new knowledge.												
General	GC1. Ability to identify, formulate and solve problems.												
competencies	GC2. Formation of a systematic scientific outlook,												
	professional ethics and general cultural outlook.												
	GC3. Ability to conduct research at the appropriate level.												
	GC4. Ability to communicate in a foreign language.												
	GC5. Skills in the use of information and communication												
	technologies.												
Special	SC1. Ability to conduct research on the state of existing												
(professional	systems of support of troops (forces) of the Armed Forces of												
(processional, subject-orientated)	Ukraine and advanced countries of the world, ways to												
competencies	achieve compatibility with the armed forces of NATO												
	countries at a high professional level.												
	SC2. Ability to work with experts, gain knowledge from												
	them and use it in practice, publicly present and defend own												
	scientific results, speak at national and international forums,												
	conferences and seminars.												
	SU3. Ability to develop and improve theoretical and												
	experimental methods for determining the feasibility of												
	technological processes in the creation of promising and												
	improvement of existing systems of support of troops												
	Improvement of existing systems of support of though												

	8
	(forces). SC4. Ability to conduct research on opportunities and ways to improve existing and create new elements and components of the system of supplying troops (forces) of the Armed Forces of Ukraine. SC5. Ability to substantiate requirements for types of support for troops (forces) and use them in planning the development and design of new systems. SC6. Ability to carry out scientific and pedagogical, scientific and innovative activities in higher military educational institutions, acquisition of pedagogical skills, pedagogical techniques, professional skills of future scientists, teachers of higher military school. SC7. Ability to create models of troop (force) support processes using physical, mathematical models and computer technologies. SC8. Ability to develop and improve methods and scientific and technical proposals to increase the effectiveness of troop (force) support in operations
	7 – Learning outcomes
General and	LO1. Possess general scientific (philosophical) competencies
professional	aimed at forming a systematic scientific worldview and
	 LO2. Demonstrate a systematic scientific outlook, the ability to think creatively, develop recommendations and formulate conclusions using the latest technologies in solving problems. LO3. To have the skills to freely present and discuss with representatives of other professional groups of different levels the results of research, scientific and applied problems of providing troops (forces), to qualitatively reflect the results of research in leading professional scientific publications, to process scientific and information sources in preparation for classes, to apply active methods of teaching disciplines. LO4. Knowledge and understanding of a foreign language, ability to present own scientific results orally and in writing in a foreign language, understanding of scientific and professional texts in a foreign language. LO5. Develop, improve and research conceptual, mathematical and computer models of processes and systems, effectively use them to obtain new knowledge and/or create innovative products in the field of support of troops (forces) and related interdisciplinary areas. LO6. To be able to identify scientific and practical problems

	and ways to solve them in the military sphere, to deeply understand the general principles and methods of military sciences, national security, state border security, as well as the methodology of scientific research, to apply them in their own research in the field of support of troops (forces) and in
	teaching practice. LO7. Analyze and apply conceptual models, scientific achievements of domestic and foreign scientists, fundamental theories in the field of support of troops (forces) and related areas. LO8. To develop organizational and technical measures related to increasing the efficiency of the use of forces and means of the types of support of troops (forces) and the system as a whole. LO9. Ability to use the methodology of modern methods of complex analysis to determine the feasibility of using new physical principles, technical solutions and technological processes in the creation of promising and improvement of existing systems of support of troops (forces). LO10. Ability to apply information technology and modern modeling methods using the latest application packages and programs for scientific substantiation and confirmation of own research. LO11. To organize and carry out the educational process in the field of support of troops (forces) and related areas, its
	support to apply effective methods of teaching disciplines
5	\mathbf{S} – Program implementation resources
Staffing/personnel	The program involves scientific and pedagogical and
	research staff who have a scientific degree and/or academic title and professional achievements in accordance with the requirements of the Licensing Conditions for the conduct of educational activities.
Logistics	Meets the technological requirements for material and technical support of educational activities in the field of
	higher education in accordance with the current licensing
	requirements of the Ministry of Education and Science of
	Ukraine. The program uses the university's classroom facilities
	(lecture rooms, computer labs), library (including an electronic library) with a reading room, a scientific center for distance learning, a center for simulation modeling, sports grounds, a stadium, a swimming pool of the Ministry of Defense of Ukraine, a medical unit, dining rooms and comfortable dormitories

Information,	The library of the National Defence University of Ukraine
education and	is provided with scientific professional periodicals of the
methodology	appropriate profile including in electronic form. There is
support	access to databases of periodicals in English
support	There is an official website of the National Defense
	There is an official website of the National Defence
	University of Ukraine (https://nuou.org.ua), which
	contains basic information about the educational and
	scientific programs, curriculum, syllabuses of educational
	components, educational, educational and scientific,
	publishing activities of the National Defense University
	of Ukraine and its structure educational and scientific
	structural units and their composition admission rules
	subcura units and then composition, admission rules,
	Available: Internet access; wireless Internet access points;
	Moodle learning environment.
	The National Defence University of Ukraine has:
	curriculum and working curriculum; educational process
	schedules; work programs of academic disciplines;
	educational and methodological support for each
	academic discipline of the curriculum: didactic materials
	for independent and individual work of applicants in
	disciplines: textbooks textbooks lecture notes atc in
	assordance with the list of recommended literature in
	accordance with the list of recommended merature in
	each academic discipline, the number of which meets the
	established requirements.
	9 – Academic mobility
National credit	It is carried out in accordance with agreements and
mobility	memorandums on scientific and scientific-technical cooperation
	with institutions of the National Sciences Academy of Ukraine,
	universities and scientific organizations
International	It is carried out in accordance with the requirements
credit mobility	established by the legislation of Ukraine for the preservation
	of state secrets within the limits. In accordance with
	cooperation agreements with foreign military universities.
	ioint educational and scientific projects (FRASMUS +
	DEEP LIKRAINE Programme) involvement in international
	conformed
Training of foreign	
annlicants for	According to special agreements within the tramework of
higher education	educational and research projects

2. LIST OF COMPONENTS OF THE EDUCATIONAL AND RESEARCH PROGRAM AND THEIR LOGICAL SEQUENCE

2.1 List of components of the educational and scientific program

			<u> </u>								
N/A	Educational program components (academic	Number	Form								
code	disciplines, course projects (works), practices,	of	summary								
	qualification work)	credits	Control								
	I Coining in donth knowledge of the gracialty										
	1. Gaining in-depth knowledge of the special	ty o									
MC I	Philosophy and methodology of science	3	E								
MC 2	School Scientific Research in Higher Military	3	E								
MC 3	Teaching methods in higher education	3	DT								
	1. Obtaining universal research skills										
MC 1 Basics of working with research projects and scientometric 2 DT											
MC 4	databases	5	DI								
MC 5	Application of modern information technologies in scientific	3	F								
WIC J	activities	5	Ľ								
	2. Obtaining language competencies		<u> </u>								
MC 6	Foreign language in scientific activity	6	F								
WIC 0	3 Acquiring in-denth knowledge of troon (force) su	innort	L								
	5. Requiring in-depth knowledge of troop (force) se	ipport									
MC 7	Conceptual problems of supplying troops (forces)	3	E								
MC 8	Theoretical foundations of military science research in the field	3	E								
	of troop (force) support										
MC 9	Fundamentals of modeling in the field of troop (force) support	3	E								
	4. Practice	1									
MC 10	Педагогічна (науково-дослідницька) практика	4	Report								
Загал	ьний обсяг обов'язкових компонентів	34									
	5. Scientific component										
	Scientific research	194	Defence								
	Selective components of the educational and scientific program										
	1. Disciplines of free choice of the PhD studen	t									
SC 1	Modern pedagogical rhetoric	3	E								
SC 2	Methods of military applied research and modeling,	3	DT								
	application packages (programs)	5									
SC 3	Philosophy of war and peace	3	DT								
SC 4	Fundamentals of assessing the effectiveness of management	3	DT								
	processes and their optimization	5									
SC 5	Project management in scientific research	3	DT								
	2. Practice (selective)										
SC 6	Pedagogical practice	3	Report								
SC 7	Research and development practice	3	Report								
Total	amount of elective components that an applicant can choose	12									
TOTA	AL VOLUME OF THE EDUCATIONAL AND SCIENTIFIC	46									
PROC	GRAM										
Total	amount of training for applicants	240									
Gener	al procedure for choosing academic disciplines. The application	ant chooses	academic								
discip	ines from the list of elective disciplines from this EPP and other E	EPPs (NPs).									



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

3. FORM OF CERTIFICATION OF HIGHER EDUCATION APPLICANTS

Public defense of scientific achievements in the form of a dissertation. The volume of the dissertation should be 110-155 pages (from 4.5 to 7 author's sheets).

Certification 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 a

4. MATRIX OF CORRESPONDENCE OF PROGRAM COMPETENCIES TO THE COMPONENTS OF THE EDUCATIONAL AND SCIENTIFIC PROGRAM

	MC 1	MC 2	MC 3	MC 4	MC 5	MC 6	MC 7	MC 8	MC 9	SC 1	SC 2	SC 3	SC 4	SC 5	SC 6	SC 7
GC1	+		+	+	+		+						+	+	+	+
GC 2	+	+				+	+	+		+		+			+	+
GC 3			+	+	+		+	+	+		+		+		+	+
GC 4						+									+	+
GC 5					+				+		+				+	+
SC 1			+	+			+							+	+	+
SC 2		+				+				+					+	+
SC 3			+	+				+			+				+	+
SC 4			+	+			+	+			+			+	+	+
SC 5	+						+		+				+		+	+
SC 6		+								+		+			+	+
SC 7					+				+		+					
SC 8					+		+	+					+	+		

5. MATRIX OF PROVIDING PROGRAM LEARNING OUTCOMES WITH RELEVANT COMPONENTS OF THE EDUCATIONAL AND SCIENTIFIC PROGRAM

	MC 1	MC 2	MC 3	MC 4	MC 5	MC 6	MC 7	MC 8	MC 9	SC 1	SC 2	SC 3	SC 4	SC 5	SC 6	SC 7
LO1	+			+				+				+				
LO 2		+					+	+				+	+	+	+	
LO 3	+	+		+						+					+	
LO 4				+		+				+						+
LO 5					+		+	+	+		+		+			
LO 6							+	+								+
LO 7	+							+					+			
LO 8	+	+					+	+					+	+		
LO 9							+	+								
LO 10					+				+		+			+		
LO 11															+	+

6. LIST OF RESEARCH AREAS FOR HIGHER EDUCATION STUDENTS

1. Research of the problems of development of communication, automation of control and radio technical support in the Armed Forces of Ukraine.

2. Study of the problems of application and management of military units and logistics institutions.

3. Research of the problems of development of airfield technical and engineering airfield support.

4. Research of problems of development of engineering and aviation support.

5. Research of problems of operation and repair of weapons and military equipment of radio engineering troops.

6. Research of the problems of operation and repair of weapons and military equipment of anti-aircraft missile troops.

7. Research of problems of economic development and financial support of troops (forces). Дослідження проблем розвитку правового забезпечення військ (сил).

8. Study of the problems of electronic intelligence development.

9. Research of problems of development of military space systems.

10. Research of problems of development of information security management in the armed forces.

11. Research of problems of development of engineering support of combat operations of troops (forces).

12. Research of problems of development of topographic and navigation support of troops (forces).

13. Research of problems of development of electronic warfare.

14. Research of problems of development of radiation, chemical and biological protection of troops (forces).

15. Research of the problems of development of tank-technical and automotive support.

16. Research of problems of development of missile and artillery technical support.

17. Research of problems of development of metrological support of troops (forces).

18. Research of problems of development of logistics of military units (by types and branches of troops and forces).

19. Study of the problems of logistics development.

20. Research of problems of development of communication and automated control systems.

21. Study of problems of development of moral and psychological support of troops (forces).

22. Research of problems of development of psychological support of troops (forces).

23. Research on the problems of development of information and propaganda support of troops (forces) and ideological work in the troops.

24. Research of problems of development of personnel management in the troops (forces).

25. Research on the problems of development of information and analytical support of military management bodies.

26. Research of problems of development of protection of information with limited access in the troops (forces).

27. Research of problems of development of law enforcement in the armed forces.

28. Research of problems of development of medical support of troops (forces).

29. Research of problems of development of military-historical work in the troops (forces).

30. Research on the problems of defense management of the security and defense sector of Ukraine.