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**MINISTRY OF DEFENCE OF UKRAINE
MILITARY ACADEMY (ODESA)**

**CONCEPT OF EDUCATIONAL ACTIVITIES
for the training of students
at the third (educational and research) level of higher education
under the Educational and Research Programme
“Weapons and Military Equipment”
Speciality: K7 Weapons and Military Equipment
Field of Study: K Security and Defence
Licensed enrolment capacity: 24 students**

Reviewed and approved by the Academic
Council of the Military Academy (Odesa) on
26.05.2026, Minutes No. 14.

Odesa 2026

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**CONCEPT OF EDUCATIONAL ACTIVITIES
under the Educational and Research Programme
“Weapons and Military Equipment”**

at the Third (Educational and Research) Level of Higher Education

The Concept of Educational Activities under this Educational and Research Programme does not provide for the award, at the relevant level of higher education, of professional qualifications in occupations subject to additional regulation.

Speciality code and title: K7 Weapons and Military Equipment.

Higher education level: third (educational and research) level of higher education; Ukrainian National Qualifications Framework: Level 8; QF-EHEA: third cycle; EQF-LLL: Level 8.

Programme Objective

The programme aims to train a highly qualified specialist capable of independently conducting research in the technical sciences, generating new ideas, addressing research problems in the military domain related to security and defence, applying research and teaching methodologies, and producing original research findings that contribute new knowledge to both theory and practice.

Programme Orientation

The programme focuses on contemporary research in security and defence. It draws on current global trends in the development of weapons and military equipment and develops programme competencies in security and defence required to conduct research and undertake independent research and teaching activities based on the principles of academic integrity, autonomy and responsibility.

The programme takes into account the competence profiles of a typical European military officer under the Sectoral Qualifications Framework for the Military Officer Profession (SQF-MILOF), enabling programme competencies to be aligned with the European Qualifications Framework for Lifelong Learning (EQF) and the National Qualifications Frameworks (NQFs) of EU Member States.

Particular emphasis is placed on research and teaching activities in the field of weapons and military equipment.

Distinctive Features of the Programme

The programme integrates education and research to prepare competitive researchers and academic staff capable of addressing research and teaching challenges in the field of weapons and military equipment.

The programme for the training of highly qualified specialists builds on the competencies acquired at the Military Academy (Odesa) at the first (Bachelor's) and second (Master's) levels of higher education in the specialities J8 Motor Transport, G3 Electrical Engineering, and K7 Weapons and Military Equipment.

The programme is multifaceted, combining the development of teaching expertise with research activities and encouraging the further development of existing research schools and the establishment of new ones.

It draws on experience in the employment of weapons and military equipment in contemporary armed conflicts, together with emerging global trends in the development and introduction of advanced weapons, military equipment complexes and systems.

The programme enables students to establish a balanced individual learning pathway and acquire additional professional competencies within that pathway.

The programme supports the implementation of the strategic goals and objectives of reforming the military education and training system and its integration into the European and Euro-Atlantic security area. It does so by taking into account the competence profiles of a typical European military officer under SQF-MILOF and the strategic vision for the further development of military education.

Total ECTS Credit Volume and Duration of Study

Total programme workload: 240 ECTS credits, comprising:

Taught component: 52 ECTS credits;

Research component: 188 ECTS credits.

Duration of study: 4 years.

Professional Standards Guiding Programme Delivery, Where Applicable

The Educational and Research Programme was developed jointly with stakeholders representing employers, namely the Directorate for Training at Higher Military Educational Institutions and Training Centres, Training Command, Ground Forces Command of the Armed Forces of Ukraine.

The programme was developed with partial reference to the following professional standards:

The Professional Standard for the occupational group “Teaching Staff of Higher Education Institutions”, approved by Order No. 610 of the Ministry for Development of Economy, Trade and Agriculture of Ukraine dated 23 March 2021;

The Professional Standard “Teacher at a Higher Education Institution”, approved by Order No. 1466 of the Ministry of Education and Science of Ukraine dated 16 October 2024.

Foundations of the Academy’s Educational Activities

The educational activities of the Military Academy (Odesa) are based on the Constitution of Ukraine; the laws of Ukraine; decrees and directives of the President of Ukraine; resolutions of the Cabinet of Ministers of Ukraine; decisions of the National Security and Defence Council of Ukraine; and the conceptual foundations for implementing the Strategy for the Development of Higher Education in Ukraine for 2022–2032, the State National Programme “Education” (“Ukraine in the Twenty-First Century”), and the Concept for the Transformation of Military Education.

These activities are also guided by Ukraine’s strategic course towards full membership of the European Union and the North Atlantic Treaty Organization (NATO); regulatory acts of the Ministry of Education and Science of Ukraine and the Ministry of Defence of Ukraine; higher education standards; other Ukrainian security and defence legislation governing the development of military education; and the Academy’s Development Strategy.

They further comply with the requirements of the Regulations on the Organisation of the Educational Process at the Military Academy (Odesa) and the Regulations on the Internal Quality Assurance System for Educational Activities and Military Education at the Military Academy (Odesa).

The Academy's Concept of Educational Activities is underpinned by the principles of justice, humanism, the rule of law, the primacy of human rights and freedoms, and patriotic military education that fosters civic awareness.

Main Aims of the Academy's Educational Activities

The principal aims of the Military Academy's educational activities are to:

- Establish a modern centre for research, education, analysis, advice and expertise on Ukraine's security and defence that meets European standards of higher military education;

- Develop the nation's intellectual potential;

- Provide the Armed Forces of Ukraine, other military formations and the state with highly qualified specialists holding higher education qualifications;

- Foster personal development grounded in national and universal human values and cultivate commitment to the defence of the homeland.

The Concept encompasses all areas of the Academy's activities: education at the relevant higher education levels; research and scientific and technical work; personnel policy and the professional development of military personnel and academic staff; the development of educational, research and social infrastructure; and the introduction and dissemination of advanced knowledge, technologies and practices in security and defence.

It also encompasses the provision of opportunities for Ukrainian citizens to obtain higher education in designated fields of study, as well as research-informed methodological work, cultural and educational outreach, and international activities. Principles Underpinning Educational Activities.

Educational activities are based on the following principles:

- Operation of the military specialist training system within the unified legislative and regulatory framework of Ukraine's education system;

- Equal access to higher education through competitive admission for every applicant;

- Independence of the Academy's educational activities from the influence of political parties, civic organisations and religious organisations;

- Alignment of graduates' higher education attainment with the requirements of their designated positions;

- Independent and objective assessment of the qualifications attained by students;

- Use of higher education standards as the mandatory minimum requirements for educational and instructional content, together with a consistent approach to programme development at all levels, mandatory consideration of professional standards where available, and the establishment of criteria for assessing acquired competencies;

- Compatibility of educational programmes with international classifications and higher education standards;

- Independent and objective assessment of the qualifications attained by students in higher military education;

- Continuous improvement of teaching and learning content, a focus on the latest instructional technologies and methods, and the fullest possible use of distance

learning technologies and modern information and analytical systems in the educational process;

Incorporation into the educational process of the combat experience gained by units and subunits of the Defence Forces of Ukraine during the Russo-Ukrainian war;

Integration of educational and research approaches to support innovation in the Academy's activities;

Assurance of the quality of educational services, educational content, educational outcomes and teaching and learning technologies;

Fulfilment of students' educational needs in accordance with their interests and abilities and the country's defence requirements;

Alignment of graduates' higher education and training with the requirements of their designated positions;

Active and student-centred learning;

Integration into the European and global education areas;

Cultivation of national and universal human values.

List of Core Competencies to Be Acquired by Higher Education Students **Integrated Competence:**

The ability to address complex theoretical and practical problems in Security and Defence arising during the creation (development and manufacture), operation, restoration and disposal of weapons and military equipment; to analyse existing research, generate new integrated knowledge and undertake professional activities.

The ability to generate new ideas, address complex problems in Security and Defence and/or research and innovation, apply research and teaching methodologies, and conduct independent research whose findings demonstrate scientific novelty and have theoretical and practical significance.

General Competencies:

GC 01. The ability to engage in abstract thinking, analysis and synthesis in developing a systematic scientific worldview, professional ethics and a broad cultural perspective.

GC 02. The ability to apply theoretical knowledge in the practical conduct of research.

GC 03. The ability to develop research and innovation projects and initiate their practical implementation.

GC 04. The ability to communicate professionally with the wider research community and the public in the official state language and in one foreign language used within the European area.

GC 05. An understanding of the importance of compliance with ethical standards and copyright requirements. The ability to undertake patent-related and

innovation activities.

GC 06. The ability to identify, formulate and solve problems, generate ideas and make well-founded decisions.

Specialised (Professional and Subject-Specific) Competencies (SC):

SC 01. The ability to develop theoretical methods and improve existing practical methods for technical decision-making.

SC 02. The ability to contribute to technological processes for the development and creation of advanced weapons and military equipment and the modernisation of existing equipment, as well as to research into the dynamic parameters of information and control systems.

SC 03. The ability to apply theoretical and experimental methods for technical decision-making and formulate research-based proposals and recommendations for optimising individual stages of the technological processes involved in designing and developing advanced weapons and military equipment, and improving existing items, complexes and systems.

SC 04. The ability to develop and refine recommendations and research proposals through the analysis and synthesis of theoretical knowledge in order to optimise the structures and characteristics of weapons and military equipment complexes, individual items and their components.

SC 05. The ability to independently conduct theoretical research into the creation of new and the modernisation of existing elements and components of weapons and military equipment items, complexes and systems; improve their tactical, operational, economic, environmental and ergonomic characteristics; and disseminate the resulting research findings.

SC 06. The ability to apply theoretical foundations and methods for the technical substantiation of requirements for weapons and military equipment systems, complexes and individual items, including their separate subassemblies, modules and assemblies.

SC 07. The ability to improve existing theoretical research tools and formulate scientific and technical proposals to enhance the combat effectiveness of weapons and military equipment systems and complexes.

SC 08. The ability to improve methods for the experimental investigation of individual subassemblies and assemblies, systems and complexes of weapons and military equipment.

SC 09. The ability to conduct theoretical research into the improvement of metrological support for weapons and military equipment.

SC 10. The ability to improve existing methods and means for the restoration, maintenance and disposal of weapons and military equipment.

SC 11. The ability to improve existing methods for increasing the survivability of weapons and military equipment through enhanced protection.

SC 12. The ability to improve theoretical research methods for increasing the combat effectiveness of the employment of weapons and military equipment.

The list of compulsory and elective educational components designed to achieve the programme learning outcomes, together with the resources required to deliver educational activities, is provided in Appendix 1.

Positions to Which Graduates May Be Appointed

Research and academic positions at higher military educational institutions and military educational units of higher education institutions.

Graduates are entitled to pursue the Doctor of Sciences degree and additional qualifications through adult education and professional military education.

Educational Entry Requirements

A Master's degree or a Specialist educational qualification.

Procedures for Assessing Learning Outcomes

Learning outcomes are assessed on the basis of the total points awarded for individual assignments and assessment activities specified in the course syllabus. Assessment uses a 100-point scale and the national grading scale, as follows: 90–100, “Excellent”; 80–89, “Very good”; 65–79, “Good”; 55–64, “Satisfactory”; 50–54, “Sufficient”; 1–49, “Unsatisfactory, with an opportunity to resit”.

Types of assessment include entry-level assessment, continuous assessment, self-assessment and final assessment.

The dissertation is defended publicly before a specialised academic council.

List of Compulsory and Elective Educational Components Designed to Achieve the Programme Learning Outcomes and Resources Required for the Delivery of Educational Activities

COMPULSORY COMPONENTS OF THE EDUCATIONAL AND RESEARCH PROGRAMME

List of Educational Components	Learning Outcomes		Resources Required for the Delivery of Educational Activities
GENERAL TRAINING BLOCK			
Philosophy	LO 01.	Conduct a thorough analysis of relevant scholarly works by Ukrainian and international researchers. Independently define research aims and problems and address them through original research findings that contribute to broader civilisational progress.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content; scenario-based tasks.
	LO 03.	Apply general scientific and philosophical knowledge as a foundation for an individual scientific worldview, professional ethics and a broad cultural perspective.	
Operations Research Theory. Modelling of System Operating Processes	LO 01.	Conduct a thorough analysis of relevant scholarly works by Ukrainian and international researchers. Independently define research aims and problems and address them through original research findings that contribute to broader civilisational progress.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
	LO 02.	Conduct independent research on weapons and military equipment, taking account of domestic and international experience.	
	LO 06.	Conduct research, at an appropriate professional level, into the effects of individual components, subassemblies and assemblies on the effectiveness of the employment and operation of weapons and military equipment, including complexes and systems.	
	LO 07.	Manage research projects and prepare funding proposals for independent research.	
	LO 09.	Apply existing theoretical methods to the practical optimisation of metrological support, maintenance and disposal of weapons and military equipment, and to improvements in their survivability and combat effectiveness.	

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	LO 10.	Validate original theoretical findings through practical laboratory and full-scale experiments and tests.	
	LO 11.	Apply contemporary research technologies and innovative methods to optimise the structures and characteristics of complexes, individual items and their components within the speciality, and present original research findings with well-substantiated arguments.	
	LO 12.	Apply modern information and communication technologies to implement original scientific and technical proposals for improving existing theoretical tools used in the development and enhancement of weapons and military equipment.	
	LO 13.	Provide substantive justification for theoretical and practical methods of increasing the combat effectiveness of the employment of weapons and military equipment.	
PROFESSIONAL TRAINING BLOCK			
Fundamentals of the Creation and Development of Weapons and Military Equipment	LO 02.	Conduct independent research on weapons and military equipment, taking account of domestic and international experience.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
	LO 06.	Conduct research, at an appropriate professional level, into the effects of individual components, subassemblies and assemblies on the effectiveness of the employment and operation of weapons and military equipment, including complexes and systems.	
	LO 09.	Apply existing theoretical methods to the practical optimisation of metrological support, maintenance and disposal of weapons and military equipment, and to improvements in their survivability and combat effectiveness.	
	LO 10.	Validate original theoretical findings through practical laboratory and full-scale experiments and tests.	
	LO 11.	Apply contemporary research technologies and innovative methods to optimise the structures and characteristics of complexes, individual items and their components within the speciality, and present original research findings with well-substantiated arguments.	
	LO 12.	Apply modern information and communication technologies to implement original scientific and technical proposals for improving existing theoretical tools used in the development and enhancement of weapons and military equipment.	
	LO 13.	Provide substantive justification for theoretical and practical methods of increasing the combat effectiveness of the employment of weapons and military equipment.	
Fundamentals of Reliability Theory	LO 02.	Conduct independent research on weapons and military equipment, taking account of domestic and international experience.	Teaching materials and methodological guidelines for conducting classes;

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and the Operation of Weapons and Military Equipment	LO 06.	Conduct research, at an appropriate professional level, into the effects of individual components, subassemblies and assemblies on the effectiveness of the employment and operation of weapons and military equipment, including complexes and systems.	educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
	LO 09.	Apply existing theoretical methods to the practical optimisation of metrological support, maintenance and disposal of weapons and military equipment, and to improvements in their survivability and combat effectiveness.	
	LO 10.	Validate original theoretical findings through practical laboratory and full-scale experiments and tests.	
	LO 13.	Provide substantive justification for theoretical and practical methods of increasing the combat effectiveness of the employment of weapons and military equipment.	
Foreign Language for Specific Purposes	LO 04.	Present and defend original research findings within the research community, orally and in writing, in the official state language and foreign languages.	Practicum programme; educational literature and governing documents specified in the programme; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
	LO 08.	Organise collaboration with specialists from different fields and research institutions within individual research projects, in accordance with the principles of professional ethics and ethical professional conduct.	
	LO 12.	Apply modern information and communication technologies to implement original scientific and technical proposals for improving existing theoretical tools used in the development and enhancement of weapons and military equipment.	
Research Training Block: Transferable Researcher Skills			
Patent Research, Fundamentals of Bibliography and Intellectual Property	LO 03.	Apply general scientific and philosophical knowledge as a foundation for an individual scientific worldview, professional ethics and a broad cultural perspective.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
	LO 05.	Implement original innovative proposals in the patenting and licensing domain.	
	LO 07.	Manage research projects and prepare funding proposals for independent research.	
Methodological Foundations of Dissertation Preparation and Defence	LO 01.	Conduct a thorough analysis of relevant scholarly works by Ukrainian and international researchers. Independently define research aims and problems and address them through original research findings that contribute to broader civilisational progress.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access
	LO 02.	Conduct independent research on weapons and military equipment, taking account	

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		of domestic and international experience.	and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
	LO 03.	Apply general scientific and philosophical knowledge as a foundation for an individual scientific worldview, professional ethics and a broad cultural perspective.	
	LO 04.	Present and defend original research findings within the research community, orally and in writing, in the official state language and foreign languages.	
	LO 05.	Implement original innovative proposals in the patenting and licensing domain.	
	LO 07.	Manage research projects and prepare funding proposals for independent research.	
	LO 08.	Organise collaboration with specialists from different fields and research institutions within individual research projects, in accordance with the principles of professional ethics and ethical professional conduct.	
	LO 11.	Apply contemporary research technologies and innovative methods to optimise the structures and characteristics of complexes, individual items and their components within the speciality, and present original research findings with well-substantiated arguments.	
	LO 12.	Apply modern information and communication technologies to implement original scientific and technical proposals for improving existing theoretical tools used in the development and enhancement of weapons and military equipment.	
Research Methodology for Weapons and Military Equipment Systems	LO 01.	Conduct a thorough analysis of relevant scholarly works by Ukrainian and international researchers. Independently define research aims and problems and address them through original research findings that contribute to broader civilisational progress.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
	LO 02.	Conduct independent research on weapons and military equipment, taking account of domestic and international experience.	
	LO 04.	Present and defend original research findings within the research community, orally and in writing, in the official state language and foreign languages.	
	LO 06.	Conduct research, at an appropriate professional level, into the effects of individual components, subassemblies and assemblies on the effectiveness of the employment and operation of weapons and military equipment, including complexes and systems.	
	LO 07.	Manage research projects and prepare funding proposals for independent research.	
	LO 09.	Apply existing theoretical methods to the practical optimisation of metrological support, maintenance and disposal of weapons and military equipment, and to improvements in their survivability and combat effectiveness.	
	LO 10.	Validate original theoretical findings through practical laboratory and full-scale	

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		experiments and tests.	
	LO 11.	Apply contemporary research technologies and innovative methods to optimise the structures and characteristics of complexes, individual items and their components within the speciality, and present original research findings with well-substantiated arguments.	
	LO 12.	Apply modern information and communication technologies to implement original scientific and technical proposals for improving existing theoretical tools used in the development and enhancement of weapons and military equipment.	
	LO 13.	Provide substantive justification for theoretical and practical methods of increasing the combat effectiveness of the employment of weapons and military equipment.	
Analytical Methods in Military- Technical Research	LO 09.	Apply existing theoretical methods to the practical optimisation of metrological support, maintenance and disposal of weapons and military equipment, and to improvements in their survivability and combat effectiveness.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
	LO 10.	Validate original theoretical findings through practical laboratory and full-scale experiments and tests.	
	LO 11.	Apply contemporary research technologies and innovative methods to optimise the structures and characteristics of complexes, individual items and their components within the speciality, and present original research findings with well-substantiated arguments.	
	LO 06.	Conduct research, at an appropriate professional level, into the effects of individual components, subassemblies and assemblies on the effectiveness of the employment and operation of weapons and military equipment, including complexes and systems.	
	LO 07.	Manage research projects and prepare funding proposals for independent research.	
	LO 09.	Apply existing theoretical methods to the practical optimisation of metrological support, maintenance and disposal of weapons and military equipment, and to improvements in their survivability and combat effectiveness.	
		LO 10. Validate original theoretical findings through practical laboratory and full-scale experiments and tests.	
	LO 11.	Apply contemporary research technologies and innovative methods to optimise the structures and characteristics of complexes, individual items and their components within the speciality, and present original research findings with well-substantiated arguments.	
	LO 12.	Apply modern information and communication technologies to implement original scientific and technical proposals for improving existing theoretical tools used in	

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		the development and enhancement of weapons and military equipment.	
	LO 13.	Provide substantive justification for theoretical and practical methods of increasing the combat effectiveness of the employment of weapons and military equipment.	
ELECTIVE COMPONENTS OF THE EDUCATIONAL AND PROFESSIONAL PROGRAMME			
Current Issues in the Psychology of Higher Military Education	01	Analyse the psychological characteristics of participants in the educational process, apply psychological methods to improve learning effectiveness, and substantiate pedagogical decisions with due regard to individual and group psychological characteristics.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Current Issues in the Pedagogy of Higher Military Education	02	Design and implement well-founded educational solutions in higher military education, apply contemporary educational technologies, analyse the effectiveness of the teaching and learning process, and adjust it in response to assessment findings.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Organisation of the Educational Process in a Higher Military Educational Institution	03	Address complex specialised tasks relating to the organisation of the educational process in a higher military educational institution; design and implement educational programmes and courses in accordance with contemporary pedagogical approaches and standards; organise and manage the educational process and ensure the quality of student preparation; apply innovative teaching and assessment methods; make well-founded managerial decisions; and monitor, analyse and improve educational activities in accordance with the principles of academic integrity.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.

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Theoretical Foundations of Military Cybernetics	04	Analyse control and information exchange processes in military systems using the laws and principles of cybernetics; construct formalised models of these processes; evaluate operational effectiveness; and substantiate decisions aimed at improving system stability and controllability.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Information and Analytical Activities in Research	05	Independently undertake the full information and analysis cycle: identify research information needs; locate relevant data; process, critically analyse and interpret the data; and present conclusions in an accessible form to support research.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Scientometrics and Research Organisation	06	The ability to systematically analyse and evaluate research activities using scientometric indicators and to effectively manage and organise research projects and initiatives within the contemporary research and higher education environment.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Internet	07	Apply contemporary Internet technologies and effectively integrate them into the	Teaching materials and methodological

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Technologies in the Educational Process of Higher Military Educational Institutions		educational process of a higher military educational institution to optimise educational activities, organise remote interaction and improve teaching and learning quality.	guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content. .
Applications of Artificial Intelligence Technologies in Education and Research	08	Effectively use and critically evaluate artificial intelligence technologies to optimise teaching and learning, improve research effectiveness and support innovation in education and research while observing ethical principles.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Modelling of System Operating Processes	09	Develop, analyse and apply models of the operating processes of diverse systems using mathematical and computational tools to conduct research effectively and optimise research processes.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Organisation of the Operation and Restoration	10	Address complex specialised tasks and problems relating to the organisation of the operation and restoration of weapons and military equipment using contemporary methods and approaches; organise and manage the activities of command bodies,	Teaching materials and methodological guidelines for conducting classes; educational literature and governing

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of Weapons and Military Equipment		units and personnel to maintain weapons and military equipment in a constant state of combat readiness; make well-founded managerial decisions under conditions of uncertainty and limited resources; plan and organise task execution, coordinate interaction, and monitor, analyse and oversee performance, introducing subsequent adjustments and innovative approaches.	documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Simulation Modelling in Applied Military Research	11	Design, implement and use simulation models to investigate the operating processes of military systems and scenarios for their employment, analyse simulation results, and formulate well-founded conclusions to support decision-making.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Analysis and Evaluation of Military Command and Control Effectiveness	12	Conduct a comprehensive analysis of military command and control systems and processes; define indicators and criteria for their effectiveness; and apply evaluation methods to substantiate command decisions and improve the performance of command bodies.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Teaching Methodology Expertise of Academic Staff in Higher Military	13	Develop teaching and methodological resources, plan and deliver different types of teaching sessions, apply contemporary educational technologies, and assess learning outcomes to improve the quality of the educational process.	Teaching materials and methodological guidelines for conducting classes; educational literature and governing documents specified in the course syllabus; computer equipment with Internet access

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Educational Institutions			and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Teaching Practicum	14	The Teaching Practicum programme is designed to enable students to attain all programme learning outcomes specified in the Educational and Research Programme (LO 1–13) and apply them in educational activities undertaken in academic positions. During the practicum, students deepen their knowledge of the organisation and methodological support of the educational process in higher military educational institutions. They gain practical experience in planning, delivering and analysing teaching sessions, applying contemporary educational technologies and teaching methods, and assessing educational outcomes. The practicum develops teaching expertise, communication skills, and organisational and managerial competencies. It strengthens the ability to make independent professional decisions, ensure the quality of the educational process, and integrate research achievements into teaching. Completion of the practicum deepens students' professional preparation for teaching and prepares them to perform effectively in academic positions.	Practicum programme; educational literature and governing documents specified in the programme; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.
Research Practicum	15	The Research Practicum programme is designed to enable students to attain all programme learning outcomes specified in the Educational and Research Programme (LO 1–13) and consolidate and deepen their practical application in professional research activities undertaken in research positions. During the practicum, students gain experience in organising and conducting independent research; applying contemporary methodological approaches and analytical and experimental methods; processing and interpreting research findings; preparing scholarly publications; and presenting and discussing their findings within the professional research community. The practicum develops research, analytical, innovation, and project organisation competencies. It strengthens the ability to independently address complex research and practical problems, make well-founded decisions, and generate new scientific and technical ideas. Completion of the practicum deepens students' research training and prepares them for professional employment in research positions in	Practicum programme; educational literature and governing documents specified in the programme; computer equipment with Internet access and licensed software; multimedia projectors; sets of handouts; classrooms; assessment tools (written assessments, test items, examination materials, etc.); digital content.

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Deputy Commandant of the Academy for Research
Colonel Denys **LISOVENKO**
“ ” 2026